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THIRTY-FIRST
ANNUAL COAL REPORT
OF ILLINOIS

STATE MINING BOARD
1912.



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STATE MINING BOARD.

1912.

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STATE INSPECTORS OF MINES.

1912.

First District,

HECTOR MCALLISTER, Streator.

Second District,

THOMAS HUDSON, Galva.

Third District,

JOHN DUNLOP, Peoria.

Fourth District,

JAMES TAYLOR, Peoria.

Fifth District,

W. S. BURRIS, Danville.

Sixth District,

THOMAS P. BACK, Springfield.

Seventh District,

W. W. WILLIAMS, Litchfield.

Eighth District,

W. L. MORGAN, R. R. 2, E. St. Louis.

Ninth District,

WALTON RUTLEDGE, Alton.

Tenth District,

THOMAS LITTLE, Murphysboro.

Eleventh District,

FRANK ROSBOTTOM, Benton.

Twelfth District,

OSCAR CARTLIDGE, Marion.

LETTER OF TRANSMITTAL.

STATE OF ILLINOIS,
OFFICE OF THE STATE MINING BOARD,
SPRINGFIELD, Jan. 1, 1913.

Honorable Charles S. Deneen, Governor of Illinois:

SIR—I have the honor, on behalf of the State Mining Board, to submit herewith the thirty-first annual report of the coal industry of the State for the fiscal year ended June 30, 1912.

Very respectfully,

MARTIN BOLT,
Chief Clerk.



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THIRTY-FIRST ANNUAL COAL REPORT.

Statistics of Coal in Illinois for the Year Ended June 30, 1912.

INTRODUCTORY.

The coal production of Illinois reached the highest point in the history of the industry during the year ended June 30, 1912. The increase over last year is 7,349,141 tons.

This notable increase is the more remarkable when it is considered that the shipping mines, which produce 97½ per cent of the total product, are seven less than last year.

While, as the report shows, the number of days worked and the number of men employed in the shipping mines has increased since last report, the ratio is not in proportion to the increased product. The average daily output for each man employed is 4.27 tons, while 3.87 tons was the daily average in 1911.

The total number of mines show an increase of thirty-four compared with last year. These mines belong principally to the local group and this increase affects production in but a very limited degree.

There has been a considerable increase in the number of mines using machines, number of machines in use and in tons undercut. The increase in mines is thirteen, in machines 151 and in tons cut 5,551,760. The comparative table shows that this method of mining has steadily increased from year to year until more than 44 per cent of the total output is mined in this way.

The number of kegs of powder used for blasting down the coal is 1,313,448. This is an increase of 73,155 kegs, or 5.9 per cent, while the output is increased 14.6 per cent.

The number of men killed while in the discharge of duty is 180, and 800 men were injured so as to lose thirty or more days time.

The increase in the number of fatal casualties is in exact proportion to the increase in tonnage, as will be shown by reference to the tables relating to this subject. An examination of these tables will reveal the causes responsible for these casualties.

The data contained in this report is furnished by the State Inspectors of Mines of the twelve districts into which the State is divided, and the same general plan is followed that has prevailed heretofore.

With but few exceptions the tables are made in the same form as in prior years, and a careful examination and comparison of them is invited, believing that they will afford an intelligent comprehension of the character and extent of one of the great industries of the State.

SUMMARY.

The following summary of the principal items of this report and for 1911 is here presented:

Summary.	1912.	1911.
Number of counties producing coal.....	52	53
Number of mines and openings of all kinds.....	879	845
New mines or old mines reopened during the year.....	176	184
Mines closed or abandoned since last report.....	142	217
Total output of all mines, in tons of 2,000 pounds.....	57,514,240	50,165,099
Number of shipping or commercial mines.....	380	387
Total output of shipping mines, tons.....	56,096,695	48,758,657
Number of mines in local trade only.....	499	458
Output of local mines, tons.....	1,417,545	1,406,442
Total tons of mine run coal.....	13,366,509	13,025,663
Total tons of lump coal.....	21,795,527	19,588,409
Total tons of egg coal.....	4,940,431	3,725,073
Total tons of nut coal.....	3,193,956	2,425,712
Total tons of pea coal.....	11,109,191	10,268,458
Total tons of slack coal.....	3,108,626	1,131,784
Total tons shipped.....	51,502,382	44,578,400
Tons supplied to locomotives at the mines.....	924,854	877,793
Tons sold to local trade.....	2,615,678	2,716,977
Tons consumed (or wasted) at the plant.....	2,471,326	2,090,929
Average days of active operation for shipping mines.....	172	169
Average days of active operation for all mines.....	160	165
Number of motors in use, shipping mines.....	381	316
Number of mines in which mining machines are used.....	139	126
Number of mining machines in use.....	1,581	1,430
Number of tons undercut by machines.....	25,550,019	19,998,259
Number of tons mined by hand.....	31,964,221	30,166,840
Average number of miners employed during the year.....	39,149	39,912
Average number of other employees underground, men.....	31,687	30,052
Average number of boys employed underground.....	1,526	1,009
Average number of employees above ground.....	7,049	6,437
Total number of employees.....	79,411	77,410
Average price paid per gross ton for hand mining, shipping mines.....	\$0.636	\$0.627

Summary—Concluded.

Summary.	1912.	1911.
Average price paid per gross ton for machine mining.....	\$0.496	\$0.494
Number of kegs of powder used for blasting coal.....	1,313,448	1,240,293
Number of kegs of powder used for other purposes.....	3,040	3,568
Number of pounds permissible explosive.....	328,075	243,099
Number of men accidentally killed.....	180	157
Number of men injured so as to lose a month or more of time.....	800	709
Number of gross tons mined to each life lost.....	319,524	319,523
Number of employees to each life lost.....	441	493
Number of deaths per 1,000 employed.....	2.26	2.03
Number of gross tons mined to each man injured.....	71,893	70,754
Number of employees to each man injured.....	99	109

CLASSIFICATION OF MINES.

The classification into shipping mines and local mines is observed in the tables as heretofore.

Table 1 gives the whole number of mines, men and tons for the State, and the same showing for the shipping and local mines.

The increase in the number of mines is 4 per cent; the number of men increased 2.6 per cent, and the increase in tonnage is 14.6 per cent.

There was a decrease of seven in the number of shipping mines, an increase of 1,899 in the number of men employed, and the output was increased 5,931,596 tons.

TABLE 1—*Mines, men and tons, shipping and local mines, by districts—1912.*

Districts.	All mines.			Shipping mines.			Local mines.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
First.....	60	5,936	2,612,556	24	5,437	2,351,330	36	499	261,226
Second.....	105	5,088	2,250,393	13	4,529	2,051,523	92	559	198,870
Third.....	101	5,264	3,015,086	32	4,871	2,767,346	69	393	247,740
Fourth.....	186	4,095	2,471,286	20	3,540	2,333,758	166	555	137,528
Fifth.....	71	7,018	5,174,966	34	6,707	5,002,440	37	311	172,526
Sixth.....	40	8,259	6,014,872	35	8,126	5,928,518	5	133	86,354
Seventh.....	30	7,377	7,201,251	23	7,322	7,170,963	7	55	30,288
Eighth.....	40	7,415	5,854,645	29	7,331	5,801,039	11	84	53,606
Ninth.....	75	5,856	4,516,548	58	5,701	4,409,341	17	155	107,207
Tenth.....	65	5,204	3,091,428	40	5,061	3,023,344	25	143	68,084
Eleventh.....	57	9,377	8,220,784	38	9,321	8,198,472	19	56	22,312
Twelfth.....	49	8,522	7,090,425	34	8,461	7,058,621	15	61	31,804
The State..	879	79,411	57,514,240	380	76,407	56,096,695	499	3,004	1,417,545

Table 2 gives the percentages by districts of the mines, men and tons for all mines and shipping and local mines.

The shipping mines are 43.23 per cent of the whole number, employing 96.22 per cent of the men and producing 97.5 per cent of the output.

TABLE 2—*Percentages of mines, men and tons, all mines, and of shipping and local mines—1912.*

Districts.	Percentages.								
	All mines.			Shipping mines.			Local mines.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
First.....	6.82	7.47	4.54	40.00	91.59	90.00	60.00	8.41	10.00
Second.....	11.94	6.41	3.91	12.38	89.01	91.16	87.62	10.99	8.84
Third.....	11.49	6.63	5.24	31.68	92.53	91.12	68.32	7.47	8.88
Fourth.....	21.16	5.16	4.29	10.75	86.45	94.43	89.25	13.55	5.57
Fifth.....	8.08	8.84	8.99	47.89	95.56	96.67	52.11	4.44	3.33
Sixth.....	4.55	10.40	10.45	87.50	98.39	98.56	12.50	1.61	1.44
Seventh.....	3.41	9.29	12.57	76.67	99.25	99.58	23.33	0.75	1.42
Eighth.....	4.55	9.34	10.17	72.50	98.87	99.08	27.50	1.13	0.92
Ninth.....	8.54	7.37	7.85	77.33	97.35	97.62	22.67	2.65	2.38
Tenth.....	7.39	6.55	5.37	61.54	97.25	97.80	38.46	2.75	2.20
Eleventh.....	6.49	11.81	14.29	66.66	99.40	99.72	33.34	0.60	0.28
Twelfth.....	5.58	10.73	12.33	69.38	99.28	99.55	30.62	0.72	0.45
The State.....	100.00	100.00	100.00	43.23	96.22	97.52	56.77	3.78	2.48

Table 3 shows the number of mines, men and tons for a series of twenty years—1893-1912.

At the bottom of the table is a comparison of 1893 and 1912, showing the increase or decrease in whole numbers and percentages.

TABLE 3—*All mines, men and tons and shipping and local mines for twenty years.*

Year.	Total.			Shipping.			Local.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
1893.....	788	35,390	19,949,564	310	28,737	19,257,682	478	6,653	691,882
1894.....	836	38,477	17,113,576	319	31,243	16,106,613	517	7,234	1,006,963
1895.....	874	38,630	17,735,864	319	31,174	16,578,890	555	7,456	1,156,974
1896.....	862	37,032	19,786,626	330	28,185	18,263,056	532	8,847	1,523,570
1897.....	853	33,788	20,072,758	310	31,322	19,386,573	543	2,466	686,185
1898.....	881	35,026	18,599,299	329	32,297	17,655,561	552	2,729	943,738
1899.....	889	36,991	23,434,445	323	34,307	22,531,356	566	2,684	903,089
1900.....	920	39,384	25,153,929	323	36,298	24,056,996	597	3,086	1,096,933
1901.....	915	44,143	26,635,319	331	40,926	25,526,816	584	3,217	1,108,503
1902.....	915	46,005	30,021,300	332	42,807	28,824,750	583	3,198	1,196,550
1903.....	933	49,814	34,955,400	353	46,494	33,676,537	580	3,320	1,278,863
1904.....	932	54,774	37,077,897	380	51,384	35,779,517	552	3,390	1,298,380
1905.....	990	59,230	37,183,374	397	55,743	35,956,543	593	3,487	1,226,831
1906.....	1,018	62,283	38,317,581	419	58,851	37,133,811	599	3,432	1,194,770
1907.....	933	66,714	47,798,621	411	63,154	46,436,839	522	3,560	1,361,782
1908.....	922	70,841	49,272,452	407	67,470	47,809,730	515	3,371	1,462,722
1909.....	886	72,733	49,163,710	384	69,518	47,958,562	502	3,215	1,205,148
1910.....	881	74,634	48,717,853	390	71,520	47,225,201	491	3,114	1,492,652
1911.....	845	77,410	50,165,099	387	74,508	48,758,657	458	2,902	1,406,442
1912.....	879	79,411	57,514,240	380	76,407	56,096,695	499	3,004	1,417,545
Increase.....	91	44,021	37,564,676	70	47,670	36,839,013	21	*2,649	725,663
Percentage of increase.....	11.55	124.39	188.30	22.58	165.88	191.33	4.39	*54.85	108.82

* Decrease.

Table 4 gives for twenty years the number of all mines, men and tons and the per cent that the shipping and local mines bear to the whole number each year of this period.

TABLE 4—*Mines, men and tons, with percentages of shipping and local mines for twenty years—1893-1912.*

Years.	Total—all mines.			Percentages.					
				Shipping.			Local.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
1893.....	788	35,390	19,949,564	39.34	81.20	96.53	60.66	18.80	3.47
1894.....	836	38,477	17,113,576	38.16	81.20	94.10	61.84	18.80	5.90
1895.....	855	38,630	17,735,864	36.50	80.70	93.48	63.50	19.30	6.52
1896.....	862	37,032	19,786,626	36.62	76.11	96.26	63.38	23.89	3.47
1897.....	853	33,788	20,072,758	36.38	92.72	96.53	63.62	7.28	3.47
1898.....	881	35,026	18,599,299	37.49	92.30	94.93	62.51	7.70	5.07
1899.....	889	36,991	23,434,445	36.33	92.74	96.15	63.67	7.26	3.85
1900.....	920	39,384	25,153,929	35.11	92.16	95.64	64.89	7.84	4.36
1901.....	915	44,143	26,635,319	36.17	92.71	95.84	63.83	7.29	4.16
1902.....	915	46,005	30,021,300	36.28	93.05	96.01	63.72	6.95	3.99
1903.....	933	49,814	34,955,400	37.83	93.34	96.34	62.17	6.66	3.66
1904.....	932	54,774	37,077,897	40.77	93.81	96.50	59.23	6.19	3.50
1905.....	990	59,230	37,183,374	40.10	94.11	96.70	59.90	5.89	3.30
1906.....	1,018	62,283	38,317,581	41.16	94.49	96.88	58.84	5.51	3.12
1907.....	933	66,714	47,798,621	44.05	94.66	97.15	55.95	5.34	2.85
1908.....	922	70,841	49,272,452	44.14	95.24	97.03	55.86	4.76	2.97
1909.....	886	72,733	49,163,710	43.34	95.58	97.55	56.66	4.42	2.45
1910.....	881	74,634	48,717,853	44.27	95.83	96.94	55.73	4.17	3.06
1911.....	845	77,410	50,165,099	45.80	96.25	97.20	54.20	3.75	2.80
1912.....	879	79,411	57,514,240	43.23	96.22	97.52	56.77	3.78	2.48

GROUPING OF MINES.

Table 5 is a classification of the mines and tons by districts into six groups. This table reveals that the mines of largest class produced more than 61 per cent of the total tonnage although less than 12 per cent of the whole number of mines.

TABLE 5—*Grouping of mines by tonnage and districts—1912.*

Districts.	Tonnage and mines producing—											
	Under 1,000.		1,000 but under 10,000.		10,000 but under 50,000.		50,000 but under 100,000.		100,000 but under 200,000.		200,000 and over.	
	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.
First.....	13	5,613	22	81,447	6	173,185	8	613,853	9	1,327,344	2	411,114
Second.....	46	19,230	43	128,073	6	120,928	.....	.....	4	466,545	6	1,515,617
Third.....	28	9,152	38	141,211	21	599,996	4	269,239	6	768,070	4	1,227,418
Fourth.....	128	54,324	39	93,188	4	127,963	5	381,947	7	1,032,205	3	781,659
Fifth.....	11	5,451	26	9,173	10	292,025	8	496,271	6	918,842	10	3,372,204
Sixth.....	1	850	2	2,439	5	116,830	10	807,121	12	1,705,922	10	3,381,710
Seventh.....	3	1,644	3	11,170	3	92,374	2	171,429	3	412,620	16	6,512,014
Eighth.....	4	2,559	5	21,341	6	141,780	5	377,023	9	1,516,697	11	3,795,245
Ninth.....	2	922	19	100,142	32	786,865	10	680,931	7	974,479	5	1,973,209
Tenth.....	10	4,243	16	53,257	18	398,975	9	675,874	10	1,520,095	2	438,984
Eleventh.....	12	4,957	7	17,355	7	157,806	5	387,363	5	749,847	21	6,903,456
Twelfth.....	8	2,789	8	32,110	1	38,363	4	273,509	13	1,931,424	15	4,812,230
The State..	266	111,734	228	771,906	119	3,047,090	70	5,134,560	91	13,324,090	105	35,124,860

Table 6 classifies the mines, men and tons by districts into three groups. The total of each group and the percentage is shown at bottom of the table.

TABLE 6—*Grouping of mines, men and tons into three classes, by districts—all mines.*

Districts.	Less than 50,000 tons.			50,000 tons and less than 100,000.			100,000 tons and over.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
First.....	41	960	260,245	8	1,414	613,853	11	3,562	1,738,458
Second.....	95	716	268,231	-----	-----	-----	10	4,372	1,982,162
Third.....	87	1,326	750,359	4	469	269,239	10	3,469	1,995,485
Fourth.....	171	976	275,475	5	638	381,947	10	2,481	1,813,864
Fifth.....	47	944	387,649	8	790	496,271	16	5,284	4,291,046
Sixth.....	8	383	120,119	10	1,402	807,121	22	6,474	5,087,632
Seventh.....	9	272	105,188	2	268	171,429	19	6,837	6,924,634
Eighth.....	15	283	165,680	5	774	377,023	20	6,358	5,311,942
Ninth.....	53	1,964	887,929	10	884	680,931	12	3,008	2,947,688
Tenth.....	44	1,363	456,475	9	1,084	675,874	12	2,757	1,959,079
Eleventh.....	26	445	180,118	5	727	387,363	26	8,205	7,653,303
Twelfth.....	17	222	73,262	4	575	273,509	28	7,725	6,743,654
The State..	613	9,854	3,930,730	70	9,025	5,134,560	196	60,532	48,448,950
Percentages....	69.85	12.41	7.02	7.85	11.36	8.76	22.30	76.23	84.22

Table 7 shows the percentages of the items in each of the three groups given in Table 6.

TABLE 7—*Percentages of mines, men and tons, grouped into three classes, by districts.*

Districts.	Percentages of mines, men and tons—mines producing—								
	Less than 50,000 tons.			50,000 and less than 100,000.			100,000 and over.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
First.....	6.68	9.74	6.62	11.40	15.66	11.95	5.61	5.90	3.58
Second.....	15.47	7.27	6.83	.....	.....	.....	5.10	7.24	4.09
Third.....	14.50	13.46	19.09	5.72	5.19	5.24	5.10	5.74	4.12
Fourth.....	27.85	9.91	7.01	7.15	7.07	7.44	5.10	4.11	3.74
Fifth.....	7.49	9.58	9.78	11.40	8.75	9.67	8.16	8.75	8.86
Sixth.....	1.30	3.89	3.06	14.30	15.53	15.72	11.22	10.72	10.50
Seventh.....	1.47	2.76	2.68	2.86	2.97	3.34	9.70	11.09	14.29
Eighth.....	2.44	2.86	4.41	7.15	8.50	7.35	10.20	10.53	10.96
Ninth.....	8.63	19.93	22.58	14.29	9.80	13.26	6.12	4.98	6.09
Tenth.....	7.17	13.83	11.50	12.86	12.02	13.16	6.12	4.56	4.05
Eleventh.....	4.23	4.52	4.58	7.15	8.06	7.54	13.27	13.59	15.80
Twelfth.....	2.77	2.25	1.86	5.72	6.37	5.33	14.30	12.79	13.92
The State.....	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Table 8 is a classification of the mines as to tonnage and shows the number of mines, men and tons in each class.

TABLE 8—*Classification of mines as to tonnage, with percentages of mines, men and tons in each class—1912.*

Mines producing—	Number of mines.	Number of men.	Tons.	Percentages of—		
				Mines.	Men.	Tons.
Less than 1,000 tons.....	266	740	111,734	30.27	0.94	0.20
1,000 and less than 10,000.....	228	2,378	771,906	25.94	2.99	1.34
10,000 and less than 50,000.....	119	6,736	3,047,090	13.54	8.48	5.47
50,000 and less than 100,000.....	70	9,025	5,134,560	7.77	11.36	8.76
100,000 and less than 200,000.....	91	19,669	13,324,090	10.53	24.77	23.16
200,000 and over.....	105	40,863	25,124,860	11.95	51.46	61.07
Total.....	879	79,411	57,514,240	100.00	100.00	100.00

Table 9 is a grouping of the mines by tonnage for a series of thirty years. The increase or decrease is shown at the bottom of the table.

TABLE 9—*Number of mines in specified groups of tonnage for a series of thirty years—1884-1912.*

Year.	Number of mines producing—						Total mines
	Under 1,000 tons.	1,000 and under 10,000 tons.	10,000 and under 50,000 tons.	50,000 and under 100,000 tons.	100,000 and under 200,000 tons.	200,000 tons and over.	
1883.....	209	233	133	39	10	15	689
1884.....	262	273	148	38	16	4	741
1885.....	286	290	143	40	13	6	778
1886.....	316	280	135	44	11	3	789
1887.....	320	278	141	42	18	2	801
1888.....	327	272	151	47	20	5	822
1889.....	321	316	139	55	20	3	854
1890.....	398	301	155	54	24	4	936
1891.....	402	260	161	52	37	6	918
1892.....	332	239	151	65	46	6	839
1893.....	282	232	140	75	47	12	788
1894.....	312	252	161	61	44	6	836
1895.....	319	276	145	61	45	9	855
1896.....	330	280	128	63	45	16	862
1897.....	346	250	120	79	41	17	853
1898.....	351	244	151	86	42	7	881
1899.....	346	261	123	77	57	25	889
1900.....	340	295	123	70	65	27	920
1901.....	313	308	124	79	58	33	915
1902.....	314	263	152	76	72	38	915
1903.....	313	293	120	75	87	45	933
1904.....	301	275	140	72	98	46	932
1905.....	321	299	147	83	88	52	990
1906.....	336	282	167	89	97	47	1,018
1907.....	260	262	145	91	95	80	933
1908.....	248	256	146	98	92	82	922
1909.....	270	239	134	66	90	87	886
1910.....	261	239	125	87	94	75	881
1911.....	235	213	138	82	101	76	845
1912.....	266	228	119	70	91	105	879
Increase in 30 years....	57	*5	*14	31	81	90	240

* Decrease.

Table 10 is the percentages of the same grouping of mines shown in Table 9. The per cent of increase or decrease of 1912 over 1883 is also shown.

TABLE 10—*Percentage of mines in specified grouping of tonnage for a series of thirty years.*

Year.	Total.	Percentages of mines producing—					
		Under 1,000 tons.	1,000 and under 10,000 tons.	10,000 and under 50,000 tons.	50,000 and under 100,000 tons.	100,000 and under 200,000 tons.	200,000 tons and over.
1883.....	639	32.71	36.47	20.81	6.10	1.56	2.35
1884.....	741	35.36	36.84	19.97	5.13	2.16	.54
1885.....	778	36.76	37.27	18.38	5.14	2.32	.13
1886.....	789	40.05	35.49	17.11	5.58	1.39	.38
1887.....	801	39.95	34.71	17.60	5.24	2.25	.25
1888.....	822	39.79	33.09	18.37	5.71	2.43	.61
1889.....	854	37.59	37.00	16.28	6.44	2.34	.35
1890.....	936	42.52	32.16	16.56	5.77	2.56	.43
1891.....	918	43.79	28.32	17.54	5.67	4.03	.65
1892.....	839	39.69	29.44	17.76	7.03	4.89	1.19
1893.....	788	35.91	29.44	16.24	10.92	5.71	1.78
1894.....	836	37.08	29.07	19.62	8.25	5.26	.72
1895.....	855	36.43	33.29	16.65	7.33	5.25	1.05
1896.....	862	38.90	30.66	14.88	8.35	5.61	1.60
1897.....	853	40.56	29.31	14.07	9.26	4.81	1.99
1898.....	881	39.84	27.70	17.14	9.76	4.77	.79
1899.....	889	38.92	29.36	13.84	8.66	6.41	2.81
1900.....	920	36.96	32.07	13.37	7.61	7.06	2.93
1901.....	915	34.21	33.66	13.55	8.63	6.34	3.61
1902.....	915	34.32	28.74	16.61	8.31	7.87	4.15
1903.....	933	33.55	31.40	12.86	8.04	9.33	4.82
1904.....	932	32.30	29.50	15.02	7.73	10.51	4.94
1905.....	990	32.43	30.20	14.85	8.38	8.89	5.25
1906.....	1,018	33.01	27.70	16.40	8.74	9.53	4.62
1907.....	933	27.82	28.08	15.56	9.76	10.20	8.58
1908.....	922	26.90	27.77	15.84	10.63	9.97	8.82
1909.....	886	30.47	26.98	15.12	7.45	10.16	9.82
1910.....	881	29.63	27.12	14.19	9.88	10.68	8.50
1911.....	845	27.81	25.21	16.33	9.71	11.95	8.99
1912.....	879	30.27	25.95	13.54	7.77	10.53	11.95
Percentage increase in 30 years.....	37.6	28.2	*2.58	*9.77	74.36	810.0	600.0

* Decrease.

Table 11 shows the output of the mines for a series of twenty-one years by groups. It will be seen, by referring to the line at the bottom of the table, that the tonnage of the first three groups has materially decreased while that of the larger mines has greatly increased.

TABLE 11—*Grouping of mines by tonnage for a series of twenty-one years.*

Year.	Tonnage of mines producing—					
	Under 1,000 tons.	1,000 and under 10,000.	10,000 and under 50,000.	50,000 and under 100,000.	100,000 and under 200,000.	200,000 and over.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
1892.....	147,777	1,058,078	4,134,259	4,293,472	5,855,091	2,373,599
1893.....	121,636	726,199	3,132,499	6,179,487	6,291,965	3,497,778
1894.....	137,507	702,623	4,022,545	4,742,257	6,035,094	1,473,550
1895.....	151,430	866,019	3,609,918	4,416,969	6,346,937	2,344,591
1896.....	141,690	807,148	3,265,822	5,049,694	6,557,545	3,962,435
1897.....	150,445	773,526	3,162,713	5,693,193	5,778,374	4,514,507
1898.....	161,622	692,149	3,785,962	6,351,513	5,898,596	1,709,457
1899.....	137,582	790,948	2,877,117	5,618,924	7,443,023	6,566,851
1900.....	154,318	969,424	3,255,570	5,009,326	8,995,963	6,769,328
1901.....	227,419	838,989	3,393,827	5,795,953	8,008,897	8,370,234
1902.....	161,058	763,597	3,694,890	5,376,350	9,923,538	10,101,867
1903.....	126,678	871,342	3,396,343	5,445,195	12,387,437	12,728,405
1904.....	126,397	934,042	3,602,660	5,200,551	13,763,975	13,480,272
1905.....	129,430	993,394	3,852,565	5,868,103	12,158,090	14,181,792
1906.....	127,232	949,073	5,097,972	6,116,018	13,462,256	12,565,030
1907.....	108,875	827,337	3,907,170	6,600,264	13,376,164	22,978,809
1908.....	95,427	793,236	3,879,000	7,130,739	13,181,385	24,192,665
1909.....	106,124	782,850	3,612,391	4,939,139	12,609,581	27,113,625
1910.....	97,266	932,300	3,305,177	6,353,951	13,911,460	24,117,699
1911.....	93,573	728,936	3,901,966	6,000,914	14,455,906	24,983,804
1912.....	111,734	771,906	3,047,090	5,134,560	13,324,090	35,124,860
Increase (+) or decrease (—) in 21 years.....	—36,043	—286,172	—1,087,169	+841,088	+7,468,999	+32,751,261

Table 12 presents the total tonnage each year from 1892 to 1912, with the per cent produced by each group.

TABLE 12—*Percentages of tons produced by specified grouping of tonnage for twenty-one years.*

Year.	Total tons.	Percentage of tons produced by mines producing—					
		Under 1,000.	1,000 and under 10,000.	10,000 and under 50,000.	50,000 and under 100,000.	100,000 and under 200,000.	200,000 and over.
1892.....	17,862,276	.82	5.92	23.15	24.04	32.78	13.29
1893.....	19,949,564	.61	3.64	15.70	30.98	31.54	17.53
1894.....	17,113,576	.80	4.11	23.50	27.71	35.26	8.61
1895.....	17,735,864	.85	4.88	20.35	24.91	35.79	13.22
1896.....	19,786,626	.72	4.08	16.51	25.52	33.14	20.03
1897.....	20,072,758	.75	3.85	15.75	28.37	28.79	22.49
1898.....	18,599,299	.87	3.72	20.36	34.15	31.71	9.19
1899.....	23,434,445	.59	3.98	12.28	23.97	31.76	28.02
1900.....	25,153,929	.61	3.86	12.94	19.92	35.76	26.91
1901.....	26,635,319	.85	3.15	12.74	21.76	30.07	31.43
1902.....	30,021,300	.54	2.54	12.31	17.90	33.06	33.65
1903.....	34,955,400	.36	2.49	9.72	15.58	35.44	36.41
1904.....	37,077,897	.34	2.52	9.72	14.03	37.09	36.30
1905.....	37,183,374	.35	2.67	10.36	15.78	32.70	38.14
1906.....	38,317,581	.33	2.48	13.31	15.96	35.13	32.79
1907.....	47,798,621	.23	1.73	8.17	13.81	27.98	48.08
1908.....	49,272,452	.11	1.70	7.87	14.48	26.75	49.10
1909.....	49,163,710	.22	1.59	7.35	10.05	25.64	55.15
1910.....	48,717,853	.20	1.91	6.79	13.04	28.56	49.50
1911.....	50,165,099	.19	1.46	7.78	11.96	28.81	49.80
1912.....	57,514,240	.20	1.34	5.47	8.76	23.16	61.07
Percentage of increase (+) or decrease (—), 21 years.....	+221.43	—23.67	—27.14	—23.93	+17.31	+127.60	+1,379.81

MINES OF LARGEST OUTPUT.

Table 13 is a list of 105 mines of the largest output, showing the names of the operators, the location of the mines, number of men employed, number of days worked, number of tons produced and the average daily production.

There are twenty-nine more mines in this class this year and the tonnage has increased 10,141,056.

The average production of these mines is 334,522 tons and the average days worked is 208, an average daily production of 1,608 tons for the year.

TABLE 13—*Mines from which more than 200,000 tons of coal have been delivered during the year 1912.*

No.	Companies.	Location.	Men.	Days.	Tons.	Average tons per day.
1	Superior Coal Co., No. 3.....	Gillespie.....	601	229	837,979	3,659
2	Superior Coal Co., No. 2.....	do.....	553	228	791,835	3,473
3	New Staunton Coal Co., No. 1.....	Livingston.....	622	195	737,632	3,783
4	Superior Coal Co., No. 1.....	Gillespie.....	562	225	673,717	2,994
5	Bunson Coal Co., Verm.....	Westville.....	684	262	640,664	2,445
6	Big Muddy Coal & Iron Co., No. 8.....	Clifford.....	366	231	570,695	2,471
7	St. Louis and O'Fallon Coal Co., No. 2.....	E. St. Louis.....	580	229	564,708	2,466
8	Bunson Coal Co., No. 4.....	Westville.....	643	263	561,169	2,134
9	Johnston City Coal Co., No. 1.....	Johnston City.....	466	240	540,236	2,251
10	Consolidated Coal Co., No. 14.....	Staunton.....	500	199	534,485	2,686
11	United Coal Mining Co., No. 1.....	Christopher.....	492	248	524,163	2,114
12	O'Gara Coal Co., No. 9.....	Harrisburg.....	456	230	523,583	2,276
13	Consolidated Coal Co., No. 17.....	Collinsville.....	372	201	516,913	2,573
14	Mt. Olive and Staunton Coal Co., No. 2.....	Staunton.....	560	148	506,044	3,419
15	Saline Co. Coal Co., No. 2.....	Ledford.....	459	238	498,223	2,093
16	Chi., Wilm., Vermilion Coal Co., No. 1.....	Thayer.....	525	199	486,140	2,443
17	Zeigler Dist. Col. Co.....	Christopher.....	397	236	475,386	2,014
18	Jones and Adams Coal Co., Peerless.....	Springfield.....	509	208	472,380	2,271
19	Consolidated Coal Co., No. 15.....	Mt. Olive.....	415	198	460,116	2,324
20	Sesser Coal Co.....	Sesser.....	343	226	424,449	1,878
21	Bell-Zoller M. Co., No. 1.....	Zeigler.....	440	208	423,687	2,037
22	Madison Coal Corp., No. 9.....	Dewmaine.....	450	178	423,556	2,380
23	St. Paul Coal Co., No. 1.....	Granville.....	774	258	413,625	1,603
24	Chicago & Carterville Coal Co., A.....	Herrin.....	460	198	407,420	2,057
25	Shoal Creek Coal Co., No. 1.....	Panama.....	426	222	407,025	1,833
26	Springfield Coal Mining Co., No. 2.....	Riverton.....	398	192	388,937	2,026
27	O'Gara Coal Co., No. 3.....	Harrisburg.....	428	200	383,685	1,918
28	Illinois Midland Coal Co., No. 5.....	Pawnee.....	461	213	382,588	1,796
29	Benton Coal Co., No. 1.....	Benton.....	400	188	382,465	2,034

Table 13—Continued.

No.	Companies.	Location.	Men.	Days.	Tons.	Average tons per day.
30	Donk Bros. Coal & Coke Co., No. 2.....	Maryville.....	450	176	380,904	2,164
31	Peabody Coal Co., No. 14.....	Witt.....	390	201	366,937	1,826
32	Royal Collieries Co., No. 1.....	Virden.....	380	186	362,815	1,951
33	Marion Co. Coal Co.....	Centralia.....	330	242	357,648	1,478
34	Madison Coal Corp., No. 6.....	Divernon.....	514	132	354,650	2,687
35	Southern Coal & Mining Co., No. 9.....	New Baden....	382	200	352,301	1,762
36	Sunnyside Coal Co., No. 1.....	Herrin.....	438	192	342,383	1,783
37	Western Coal Mining Co., Bush.....	Bush.....	355	259	332,693	1,285
38	Hart-Williams Coal Co., No. 1.....	Benton.....	463	162	332,350	2,052
39	Southern Coal & Mining Co., No. 8.....	Belleville.....	283	215	331,987	1,544
40	Montgomery Co. Coal Co.....	Hillsboro.....	438	175	329,222	1,881
41	Dering Coal Co., No. 2.....	Westville.....	385	206	326,947	1,587
42	Prairie Coal Co.....	Belleville.....	271	232	325,680	1,404
43	Spring Valley Coal Co., No. 5.....	Dalzell.....	685	223	316,788	1,421
44	Big Muddy Coal & Iron Co., No. 7.....	Herrin.....	398	161	313,509	1,947
45	Mt. Olive & Staunton, No. 1.....	Staunton.....	343	181	311,682	1,722
46	Black Diamond Coal Co.....	Auburn.....	282	194	311,600	1,607
47	Maplewood Col. Co., No. 2.....	Farmington....	370	217	303,500	1,399
48	B. F. Berry Coal Co., No. 1.....	Taft.....	580	445	302,906	682
49	Bunson Coal Co., No. 2.....	Westville.....	375	259	302,724	1,169
50	Christian Co. Coal Co.....	Taylorville....	393	153	302,278	1,976
51	Dering Coal Co., No. 3.....	Steelton.....	385	201	301,103	1,547
52	Bunson Coal Co., No. 3.....	Westville.....	296	265	297,587	1,123
53	Hillsboro Coal Co.....	Hillsboro.....	218	228	293,619	1,288
54	W. P. Rend Coal & Coke Co., No. 2.....	Herrin.....	315	200	290,938	1,455
55	Madison Coal Corp., No. 8.....	Dewmaine.....	350	194	288,968	1,490
56	O'Gara Coal Co., No. 1.....	Harrisburg....	268	243	286,318	1,178
57	Burnwell Coal Co., No. 1.....	Witt.....	333	145	277,015	1,910
58	Big Creek Coal Co., No. 2.....	St. David.....	361	230	271,729	1,181
59	Woodside Coal Co.....	Springfield....	347	200	269,354	1,347
60	W. P. Rend Col. Co., No. 1.....	Rend.....	295	221	267,441	1,210
61	O'Gara Coal Co., No. 10.....	Harrisburg....	300	207	265,945	1,285
62	Illinois Midland Coal Co., No. 6.....	Sherman.....	414	139	265,683	1,911
63	Harrisburg-Southern Coal Co., No. 1.....	Eldorado.....	178	254	265,136	1,044
64	Girard Col. Co., No. 5.....	Girard.....	320	166	263,512	1,587
65	Wasson Coal Co., No. 1.....	Harrisburg....	258	249	259,421	1,042
66	Spring Valley Coal Co., No. 3.....	Spring Valley..	654	196	259,021	1,324
67	Tuluca Coal Co., Nos. 1 and 2.....	Tuluca.....	653	266	257,473	968
68	Clark Coal & Coke Co., Emp. 2.....	Peoria.....	280	228	253,414	1,112

Table 13—Concluded.

No.	Companies.	Location.	Men.	Days.	Tons.	Average tons per day.
69	Madison Coal Corp., No. 5.....	Mt. Olive.....	299	189	252,885	1,338
70	Spring Valley Coal Co., No. 1.....	Spring Valley..	706	206	252,853	1,227
71	Centralia Coal Co., No. 2.....	Centralia.....	300	194	245,901	1,268
72	O'Gara Coal Co., No. 4.....	Harrisburg.....	292	190	244,900	1,289
73	Illinois 3d Vein Coal Co., No. 1.....	Ladd.....	570	235	238,549	1,015
74	Lumaghi Coal Co., No. 2.....	Collinsville.....	430	107	238,140	2,226
75	O'Gara Coal Co., No. 14.....	Harrisburg.....	319	189	238,076	1,260
76	Saline Co. Coal Co., No. 3.....	do.....	286	260	235,326	950
77	Springfield Coal Co., No. 6.....	Taylorville.....	307	183	235,220	1,285
78	Southern Coal & Mining Co., No. 7.....	Belleville.....	202	233	233,921	1,004
79	Eldorado Coal Mining Co., No. 1.....	Eldorado.....	234	235	231,966	987
80	Breese Trenton Mining Co.....	Breese.....	243	212	230,060	1,085
81	St. Paul Coal Co., No. 2.....	Cherry.....	402	277	228,369	824
82	Peabody Coal Co., No. 2.....	Marion.....	222	204	228,365	1,119
83	Taylor Coal Co., No. 2.....	Herrin.....	237	215	227,819	1,060
84	Latham Coal Co., North.....	Lincoln.....	353	203	227,586	1,121
85	Vivian Col. Co.....	Greenridge.....	274	228	226,500	993
86	Donk Bros. Coal & Coke Co., No. 1.....	Collinsville.....	300	139	225,857	1,625
87	Capitol Coal Co., No. 2.....	Springfield.....	305	212	222,792	1,051
88	Peabody Coal Co., No. 3.....	Marion.....	390	116	222,701	1,919
89	Willis Coal & Mining Co., No. 1.....	Willisville.....	236	218	222,541	1,021
90	Kortkamp Coal Co., K.....	Hillsboro.....	280	167	222,256	1,339
91	Dering Coal Co., No. 11.....	W. Frankfort..	331	169	221,906	1,313
92	Spring Valley Coal Co., No. 4.....	Seatonville.....	524	232	220,037	949
93	Carterville Coal Co.....	Carterville.....	264	138	218,418	1,582
94	Big Muddy Coal & Iron Co., No. 9.....	Murphysboro..	245	167	216,445	1,296
95	Franklin Co. Coal & Coke Co.....	Royalton.....	308	214	212,112	991
96	Greenridge Coal Co., No. 1.....	Virden.....	287	161	212,096	1,317
97	Donk Bros. Coal & Coke Co., No. 3.....	Troy.....	347	187	209,076	1,118
98	Southern Illinois Coal & Coke Co.....	Herrin.....	214	223	206,918	928
99	Monmouth Coal Mining Co., No. 1.....	Brereton.....	292	171	206,430	1,207
100	Oglesby Coal Co., Oglesby.....	Oglesby.....	443	233	205,737	882
101	LaSalle Co. C. C. Co., No. 5.....	LaSalle.....	440	220	205,374	934
102	Chicago & Big Muddy Coal Co.....	Marion.....	263	142	204,392	1,439
103	Dering Coal Co., No. 4.....	Steelton.....	242	201	202,655	1,008
104	Electric Coal Co.....	Danville.....	199	273	201,857	739
105	Hafer Washed Coal Co., No. 3.....	Carterville.....	205	152	200,138	1,317
	Total.....	.....	40,963	208	35,124,860	1,608

Table 14 is a continuation of Table 13 and shows the same items.

TABLE 14—*Mines from which more than 100,000 tons of coal and less than 200,000 have been delivered during the year 1912.*

No.	Companies.	Location.	Men.	Days.	Tons.	Average tons per day.
1	Chicago & Springfield Coal Co.....	Springfield.....	264	151	199,478	1,321
2	Madison Coal Corp., No. 2.....	Glen Carbon...	273	157	199,204	1,269
3	Ohio Valley Mining Co., No. 8.....	W. Frankfort..	203	167	197,773	1,184
4	Chicago and Carterville Coal Co., B.....	Herrin.....	301	178	197,534	1,110
5	Sangamon Coal Co.....	Springfield.....	249	203	197,301	972
6	Chicago & Sandoval Coal Co., No. 2.....	Sandoval.....	238	229	193,688	846
7	O'Gara Coal Co., No. 15.....	Harrisburg.....	215	206	193,151	938
8	West Virginia Coal Co., No. 1.....	Marion.....	170	186	192,357	1,034
9	Springfield Coal Mining Co., No. 5.....	Springfield.....	298	154	191,634	1,244
10	Big Creek Coal Co., No. 4.....	Dunfermline...	258	195	190,460	977
11	Penwell Coal Mining Co.....	Pana.....	260	149	190,104	1, 75
12	Southern Illinois Coal & Coke Co.....	Herrin.....	219	183	188,873	1,032
13	Willis Coal Mining Co., No. 6.....	Percy.....	221	180	188,779	1,049
14	Centralia Coal Co., No. 4.....	Centralia.....	216	201	188,365	937
15	Pana Coal Co., No. 1.....	Pana.....	257	167	185,588	1,111
16	Jos. Taylor Coal Co., St. Ellen.....	O'Fallon.....	238	136	180,593	1,328
17	Crescent Coal Co., No. 1.....	Peoria.....	248	215	180,325	838
18	Cora Coal Co.....	Springfield.....	217	163	179,609	1,102
19	Big Muddy Fuel Co.....	Johnston City..	232	206	179,381	871
20	Madison Coal Corp., No. 4.....	Glen Carbon...	265	154	178,713	1,160
21	Chi., Wilm. & Vermilion Coal Co., No. 1...	S. Wilmington..	387	194	177,995	818
22	Majestic Coal & Coke Co.....	DuQuoin.....	390	92	176,038	1,913
23	Stonington Coal Co.....	Stonington.....	226	128	175,516	1,371
24	Carterville Dist. Coal Co., No. 1.....	Marion.....	238	141	174,390	1,237
25	Paradise Coal Co.....	DuQuoin.....	210	114	173,789	1,524
26	Muddy Valley Mining Co.....	Hallidayboro...	246	139	173,242	1,246
27	Breese Trenton Mining Co.....	Beckemeyer...	266	152	171,752	1,130
28	DuQuoin Operating Co.....	DuQuoin.....	235	132	169,416	1,283
29	LaSalle Co. C. C. Co., No. 1.....	LaSalle.....	384	206	168,396	817
30	Big Four Wilm. C. Co., No. 6.....	Coal City.....	405	223	168,337	800
31	Odin Coal Co.....	Odin.....	215	213	167,138	789
32	Consolidated Coal Co., No. 8.....	Mt. Olive.....	209	182	166,893	917
33	Alden Coal Co., No. 6.....	Norris.....	235	184	166,179	903
34	North Breese Coal & Mining Co.....	Breese.....	229	150	163,726	1,092
35	Chi., Wilm. & Vermilion Coal Co., No. 3...	S. Wilmington..	307	194	159,805	824

Table 14—Continued.

No.	Companies.	Location.	Men.	Days.	Tons.	Average tons per day.
36	Canton Coal Co.....	Canton.....	193	226	158,817	703
37	Superior Coal Mining Co.....	Belleville.....	131	206	158,622	770
38	Pond Creek Coal Co.....	Herrin.....	229	220	158,089	719
39	Norris Coal Mining Co.....	Norris.....	258	186	156,331	840
40	Centralia Coal Co., No. 5.....	Centralia.....	289	83	152,961	1,831
41	Suburban Coal & Mining Co.....	Belleville.....	118	229	151,603	662
42	Standard Colliery Co.....	Johnston City..	178	171	149,666	875
43	Marquette 3d Vein Coal Co., No. 1.....	Marquette.....	360	210	148,475	707
44	LaSalle Co. C. C. Co., No. 1.....	LaSalle.....	350	230	145,279	632
45	Matheissen & Hegeler & Co.....	do.....	122	297	141,090	475
46	Chi., Wilm. & Vermilion Coal Co., No. 3...	Streator.....	215	256	140,802	550
47	Smith Lohr Coal Mining Co.....	Pana.....	240	416	134,885	1,163
48	O'Gara Coal Co., No. 11.....	Harrisburg....	248	160	134,619	841
49	Clover Leaf Mining Co., No. 2.....	Coffeen.....	215	171	134,247	785
50	Eagle Mining Co., Eagle.....	Canton.....	160	232	132,360	571
51	Royal Coal & Mining Co.....	Belleville.....	129	160	131,700	823
52	Pocahontas Mining Co., No. 1.....	Pocahontas....	186	153	131,527	860
53	Security Coal Mining Co., No. 1.....	DuQuoin.....	233	154	130,575	848
54	Missouri & Illinois Coal Co., No. 4.....	Willisville.....	136	179	128,712	719
55	St. Louis & O'Fallon Coal Co., No. 1.....	E. St. Louis....	402	102	128,706	1,262
56	Auburn & Alton Coal Co.....	Auburn.....	187	185	127,924	691
57	Simmons Coal Co.....	Canton.....	162	205	126,463	617
58	Tazewell Coal Co.....	Pekin.....	155	250	126,206	505
59	Carterville and Herrin Coal Co., No. 1.....	Herrin.....	148	180	125,531	697
60	Williamson Co. Coal Co.....	Johnston City..	212	124	125,523	1,012
61	Chi., Wilm. & Vermilion Coal Co., No. 2...	Streator.....	259	200	122,978	615
62	Kerns-Donnewald Coal Co.....	Worden.....	163	158	122,584	775
63	Roanoke Coal Co.....	Roanoke.....	266	253	122,552	484
64	T. J. O'Gara Coal Co.....	Springfield....	175	202	121,344	601
65	Winona Coal Co., No. 1.....	Winona.....	250	232	121,106	522
66	West End Coal Co.....	Springfield....	201	132	119,261	903
67	Williamsville Coal Co.....	Selbytown.....	142	169	118,941	704
68	Dering Coal Co., No. 18.....	W. Frankfort..	204	164	118,637	723
69	Kolb Coal Co.....	Maseoutah.....	102	337	117,790	350
70	Manufacturers & Consumers Coal Co.....	Decatur.....	244	229	117,573	513
71	Cantrall Cooperative Coal Co.....	Cantrall.....	159	209	117,291	561
72	Springfield Cooperative Coal Co.....	Springfield....	138	206	115,300	560
73	Danville Col. Co.....	Catlin.....	148	227	115,176	507

Table 14—Concluded.

No.	Companies.	Location.	Men.	Days.	Tons.	Average tons per day.
74	St. Louis & Carterville Coal Co., Dale.....	Herrin.....	172	147	114,866	781
75	Big Muddy Coal & Iron Co., Harrison.....	Murphysboro...	211	125	114,271	914
76	Lefton Coal Co.....	Auburn.....	196	173	112,648	651
77	Wilson Bros. Coal Co., No. 7.....	Sparta.....	105	232	112,312	484
78	Coal Valley Mining Co., No. 2.....	Sherrard.....	175	189	111,800	613
79	Peabody Coal Co., No. 10.....	Nokomis.....	137	179	111,480	623
80	Carterville & Big Muddy Coal Co.....	Cambria.....	177	153	110,015	719
81	Deming & Cruickshank, No. 3.....	Peoria.....	135	230	109,648	477
82	Taylor Coal Co., No. 1.....	Herrin.....	167	142	108,594	765
83	Newsam Bros., No. 3.....	Peoria.....	128	246	108,233	445
84	Watson Coal Co., No. 1.....	Herrin.....	103	158	106,605	675
85	Saline Co. Coal Co., No. 1.....	Ledford.....	174	215	105,667	491
86	Coal Valley Mining Co., No. 3.....	Mathersville...	142	157	105,617	673
87	Breese Trenton Mining Co.....	Trenton.....	180	136	105,465	775
88	Wabash Coal Co., No. 1.....	Dawson.....	140	200	105,191	526
89	Wilm. Coal., Mining & Mfg. Co., No. 6.....	Torino.....	250	219	102,662	469
90	Star Coal Co., No. 1.....	Cuba.....	192	194	101,595	524
91	Alden Coal Co., No. 7.....	Mathersville...	154	163	100,653	618
	Total.....		19,669	188	13,324,090	792

Table 15 shows the total of the number of mines and tons produced for seventeen years of the mines producing 50,000 tons or more. The number of tons is larger this year than for any years of the series.

TABLE 15—*Mines producing 50,000 tons and less than 100,000; 100,000 tons and less than 200,000, and 200,000 tons and more, with total mines and tons, for seventeen years.*

Year.	Mines producing—						Total.	
	50,000 tons and less than 100,000		100,000 tons and less than 200,000		More than 200,000.			
	No. of mines.	Tons.	No. of mines.	Tons.	No. of mines.	Tons.	No. of mines.	Total tons.
1896.....	63	5,049,694	45	6,557,545	16	3,962,435	124	15,569,674
1897.....	79	5,693,193	41	5,778,374	17	4,514,507	137	15,986,074
1898.....	86	6,351,513	42	5,898,596	7	1,709,457	135	13,959,566
1899.....	77	5,618,924	57	7,443,023	25	6,566,851	159	19,628,798
1900.....	70	5,009,326	65	8,995,963	27	6,769,328	162	20,774,617
1901.....	79	5,795,952	58	8,008,897	33	8,370,234	170	22,175,084
1902.....	76	5,376,350	72	9,923,538	38	10,101,867	186	25,401,755
1903.....	75	5,445,195	87	12,387,437	45	12,728,405	207	30,561,037
1904.....	72	5,200,551	98	13,763,975	46	13,460,272	216	32,424,798
1905.....	83	5,868,103	88	12,158,090	52	14,181,792	223	32,207,985
1906.....	89	6,116,018	97	13,462,256	47	12,565,030	233	32,143,304
1907.....	91	6,600,264	95	13,376,164	80	22,978,809	266	42,955,237
1908.....	98	7,130,739	92	13,181,385	82	24,192,665	272	44,504,789
1909.....	66	4,939,139	90	12,609,581	87	27,113,625	243	44,662,345
1910.....	87	6,353,951	94	13,911,460	75	24,117,699	256	44,383,110
1911.....	82	6,000,914	101	14,455,906	76	24,983,804	259	45,440,624
1912.....	70	5,134,560	91	13,324,090	105	35,124,860	266	53,583,510

GAIN OF LOSS IN MINES.

Table 16 shows the number of mines that were in operation at the beginning of the year, the number opened and the number closed, and is for twenty-three years.

TABLE 16—*Total number of mines at the beginning of each year, number opened and closed each year, also the gain and loss for a series of twenty-three years.*

Year.	Number of mines.					Gain.	Loss.
	At beginning of year.	Opened or renewed.	Total.	Closed or suspended.	At close of year.		
1890.....	854	176	1,030	94	936	82	.....
1891.....	936	92	1,028	110	918	.....	18
1892.....	918	59	977	138	839	.....	79
1893.....	839	69	908	120	788	.....	51
1894.....	788	156	944	108	836	48	.....
1895.....	836	116	952	78	874	38	.....
1896.....	874	142	1,016	115	901	27	.....
1897.....	901	70	971	118	853	.....	48
1898.....	853	120	973	92	881	28	.....
1899.....	881	129	1,010	121	889	8	.....
1900.....	889	147	1,036	116	920	31	.....
1901.....	920	138	1,058	143	915	.....	5
1902.....	915	111	1,026	111	915	.....	.....
1903.....	915	109	1,024	91	933	18	.....
1904.....	933	109	1,042	110	932	.....	1
1905.....	932	168	1,100	110	990	58	.....
1906.....	990	151	1,141	123	1,018	28	.....
1907.....	1,018	88	1,106	173	933	.....	85
1908.....	933	97	1,030	108	922	.....	11
1909.....	922	81	1,003	117	886	.....	36
1910.....	886	86	972	91	881	.....	5
1911.....	881	184	1,065	220	845	.....	36
1912.....	845	176	1,021	142	879	34	.....

Table 17 is the same showing as Table 16, but is for shipping mines only. There is a loss of seven in this class of mines this year.

TABLE 17—*Shipping mines, number opened and closed, also gain and loss for a series of twenty-two years.*

Year.	Number of mines.					Gain.	Loss.
	At beginning of year.	Opened or renewed.	Total.	Closed or suspended.	At close of year.		
1891.....	308	.....	308	.....	308	.....	.....
1892.....	308	.....	308	9	299	.....	9
1893.....	299	2	301	.....	301	2	.....
1894.....	301	18	319	.....	319	18	.....
1895.....	319	.....	319	.....	319	.....	.....
1896.....	319	3	322	.....	322	3	.....
1897.....	322	.....	322	12	310	.....	12
1898.....	310	19	329	.....	329	19	.....
1899.....	329	.....	329	8	321	.....	8
1900.....	321	2	323	.....	323	2	.....
1901.....	323	8	331	.....	331	8	.....
1902.....	331	1	332	.....	332	1	.....
1903.....	332	21	353	.....	353	21	.....
1904.....	352	27	380	.....	380	27	.....
1905.....	380	17	397	.....	397	17	.....
1906.....	397	22	419	.....	419	22	.....
1907.....	419	.....	419	8	411	.....	8
1908.....	411	16	427	20	407	.....	4
1909.....	407	18	425	41	384	.....	23
1910.....	384	27	411	21	390	6	.....
1911.....	390	29	419	32	387	.....	3
1912.....	387	15	402	22	380	.....	7

Table 18 presents a list of the counties in which shipping mines are operated and gives the number of mines, the number of men employed and number of tons produced in each for the years 1911 and 1912.

The gain or loss in mines, men and tons is also shown. The number of mines decreased this year is seven, but the increase in the number of men employed is 1,897, and in tonnage 7,338,038.

TABLE 18—*Shipping mines, number of mines, men, tons, by counties, with the gain or loss for the years 1911-1912.*

Counties.	1911.			1912.			Gain (+) or loss (—) 1912.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
The State.....	387	74,508	48,758,657	380	76,407	56,096,695	—7	+1,899	+7,338,038
Bond.....	2	269	144,824	2	316	183,180	.....	+47	+38,356
Bureau.....	7	3,637	1,217,566	7	3,901	1,664,092	.....	+264	+446,526
Christian.....	8	2,068	1,195,767	8	2,058	1,340,503	.....	—10	+144,736
Clinton.....	5	1,313	1,000,536	5	1,315	1,012,982	.....	+2	+12,446
Franklin.....	14	3,732	2,354,839	16	4,472	4,026,815	+2	+740	+1,671,976
Fulton.....	22	3,637	1,788,137	20	3,540	2,333,758	—2	—97	+545,621
Gallatin.....	3	128	56,656	3	135	63,127	.....	+7	+6,471
Grundy.....	7	1,692	583,961	6	1,661	742,606	—1	—31	+158,645
Henry.....	2	135	84,350	1	95	42,995	—1	—40	—41,355
Jackson.....	9	1,124	621,853	7	1,071	687,857	—2	—53	+66,004
Jefferson.....	1	36	10,708	1	45	7,958	.....	+9	—2,750
LaSalle.....	14	3,299	1,163,201	15	3,319	1,404,599	+1	+20	+241,398
Livingston.....	2	322	73,212	1	45	29,682	—1	—277	—43,530
Logan.....	4	660	304,099	4	677	429,555	.....	+17	+125,456
Macon.....	5	643	255,764	5	597	271,626	.....	—46	+15,862
Macoupin.....	13	4,469	4,269,238	13	4,650	4,890,622	.....	+181	+621,384
Madison.....	16	4,160	3,715,882	16	4,301	3,400,930	.....	+141	—314,952
Marion.....	7	1,687	1,134,377	6	1,399	1,203,947	—1	—288	+69,570
Marshall.....	4	1,013	307,452	5	1,038	441,731	+1	+25	+134,279
McLean.....	2	272	89,925	2	200	96,898	.....	—72	+6,973
Menard.....	5	440	236,314	4	329	189,235	—1	—111	—47,079
Mercer.....	3	436	239,740	3	471	318,070	.....	+35	+78,330
Montgomery.....	10	2,580	2,189,078	10	2,672	2,280,341	.....	+92	+91,263
Moultrie.....	1	30	11,573	1	68	54,162	.....	+38	+42,589
Peoria.....	13	1,138	809,013	14	1,386	1,026,151	+1	+248	+217,138
Perry.....	21	2,356	1,446,077	19	2,402	1,394,940	—2	+46	—51,137
Putnam.....	2	1,309	585,135	2	1,354	716,531	.....	+45	+131,396
Randolph.....	10	1,174	991,932	10	1,127	744,506	.....	—47	—247,426
Rock Island.....	1	16	9,717	1	29	13,040	.....	+13	+3,323

Table 18—Concluded.

Counties.	1911.			1912.			Gain (+) or loss (—) 1912.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
Saline.....	18	3,868	3,221,100	18	4,659	4,076,756	.....	+791	+855,656
Sangamon.....	31	7,220	4,640,026	29	7,249	5,402,065	—2	+29	+762,039
Shelby.....	2	280	80,767	2	211	114,835	.....	—69	+34,068
Stark.....	1	33	13,949	1	33	13,326	.....	.....	—623
St. Clair.....	55	5,759	5,173,979	58	5,701	4,409,341	+3	—58	—764,638
Tazewell.....	5	344	164,373	5	341	209,802	.....	—3	+45,429
Vermilion.....	19	3,750	3,067,880	18	3,773	3,221,314	—1	+23	+153,434
Washington.....	.....	.....	.....	3	416	188,083	+3	+416	+188,083
White.....	1	56	29,271	1	55	31,774	.....	—1	+2,503
Will.....	2	483	160,025	2	412	174,443	.....	—71	+14,418
Williamson.....	38	8,532	5,180,971	34	8,461	7,058,621	—4	—71	+1,877,650
Woodford.....	2	408	135,390	2	423	183,896	.....	+15	+48,506

DISTRIBUTION OF OUTPUT.

Table 19 shows a list of the shipping mines of the State, giving the names of the operators, the number and location of the mines controlled by each, the total output and the disposition of the product.

TABLE 19—*Shipping or commercial collieries—distribution of output, 1912.*

Number.	Name of operator.	Number of mines.	Postoffice address, location of mine.	Total output all grades.	Disposition of output.			
					Tons loaded on cars at the mine for shipment.	Supplied to locomotives at mine chutes.	Sold to local trade.	Consumed and wasted at mine.
	All shipping mines..	380	.....	56,096,695	51,502,382	924,854	1,549,437	2,120,022
1	O'Gara Coal Co.....	11	Harrisburg.....	2,461,017	2,349,223	38,870	23,826	49,098
2	Superior Coal Co.....	3	Gillespie.....	2,303,531	2,253,209	.....	2,125	48,197
3	Bunsen Coal Co.....	4	Westville.....	1,802,144	1,757,178	.....	13,079	31,887
4	Consolidated Coal Co....	5	.....	1,773,550	1,562,186	39,099	2,056	170,209
	..do.....	2	Mt. Olive.....	627,009	531,358	39,099	639	55,913
	..do.....	1	Staunton.....	534,485	494,314	.....	.....	40,171
	..do.....	1	Collinsville.....	516,913	449,805	.....	.....	67,108
	..do.....	1	Breese.....	95,143	86,709	.....	1,417	7,017

Table 19—Continued.

Number.	Name of operator.	Number of mines.	Postoffice address, location of mine.	Total output all grades.	Disposition of output.			
					Tons loaded on cars at the mine for shipment.	Supplied to locomotives at mine chutes.	Sold to local trade.	Consumed and wasted at mine.
5	Madison Coal Corp.....	6	.....	1,697,976	1,612,372	18,181	9,889	57,534
	..do.....	2	Dewmaine.....	712,524	689,764	.....	3,383	19,377
	..do.....	2	Glen Carbon.....	377,917	355,318	596	2,921	19,082
	..do.....	1	Divernon.....	354,650	342,500	.....	3,378	8,772
	..do.....	1	Mt. Olive.....	252,885	224,790	17,585	207	10,303
6	Big Muddy C. & I. Co....	4	.....	1,214,920	1,116,475	.....	4,961	93,484
	..do.....	1	Clifford.....	570,695	523,183	.....	2,063	45,449
	..do.....	2	Murphysboro.....	330,716	306,425	.....	.....	24,291
	..do.....	1	Herrin.....	313,509	286,867	.....	2,898	23,744
7	Dering Coal Co.....	5	.....	1,171,248	1,142,779	.....	.....	28,469
	..do.....	2	Steelton.....	503,758	495,980	.....	.....	7,778
	..do.....	2	West Frankfort.....	340,543	324,382	.....	.....	16,161
	..do.....	1	Westville.....	326,947	322,417	.....	.....	4,530
8	Chi., Wil. & V. C. Co....	5	.....	1,087,720	923,501	319	22,839	141,061
	..do.....	1	Thayer.....	486,140	468,770	.....	2,591	11,779
	..do.....	2	S. Wilmington.....	337,800	222,492	319	10,168	104,821
	..do.....	2	Streator.....	263,780	232,239	.....	10,080	21,461
9	Spring Valley Coal Co....	4	.....	1,048,699	970,699	12,142	25,779	40,079
	..do.....	2	Spring Valley.....	511,874	461,745	12,142	18,182	19,805
	..do.....	1	Dalzell.....	316,788	303,571	.....	2,535	10,682
	..do.....	1	Seatonville.....	220,037	205,383	.....	5,062	9,592
10	Southern C. & M. Co....	8	.....	1,018,206	961,266	1,167	6,966	48,807
	..do.....	7	Belleville.....	665,905	635,140	1,167	4,739	24,859
	..do.....	1	New Baden.....	352,301	326,126	.....	2,227	23,948
11	Peabody Coal Co.....	4	.....	929,483	907,849	.....	3,034	18,600
	..do.....	2	Marion.....	451,066	441,691	.....	.....	9,375
	..do.....	1	Witt.....	366,937	359,006	.....	2,108	5,823
	..do.....	1	Nokomis.....	111,480	107,152	.....	926	3,402
12	Springfield C. M. Co....	4	.....	853,279	758,477	19,903	31,919	42,980
	..do.....	1	Riverton.....	388,937	362,262	.....	3,518	23,157
	..do.....	1	Taylorville.....	235,220	175,803	19,903	26,201	13,313
	..do.....	1	Springfield.....	191,634	185,812	.....	.....	5,822
	..do.....	1	Spaulding.....	37,488	34,600	.....	2,200	688

Table 19—Continued.

Number.	Name of operator.	Number of mines.	Postoffice address, location of mine.	Total output all grades.	Disposition of output.			
					Tons loaded on cars at the mine for shipment.	Supplied to locomotives at mine chutes.	Sold to local trade.	Consumed and wasted at mine.
13	Saline Co. Coal Co.	3	.....	839,216	821,390	.....	3,249	14,577
	..do.....	2	Ledford.....	603,890	592,771	.....	2,100	9,019
	..do.....	1	Harrisburg.....	235,326	228,619	.....	1,149	5,558
14	Mt. Olive & Staun. C. Co.	2	Staunton.....	817,726	790,991	5,941	5,052	15,742
15	Donk Bros. C. & C. Co..	3	.....	815,837	781,835	1,057	6,516	26,429
	..do.....	1	Maryville.....	380,904	365,667	599	1,605	13,023
	..do.....	1	Collinsville.....	225,857	217,584	458	266	7,549
	..do.....	1	Troy.....	209,076	198,574	.....	4,645	5,857
16	New Staunton C. Co....	1	Livingston.....	737,632	727,788	.....	2,936	6,908
17	St. L. & O'Fallon C. Co.	2	East St. Louis..	693,414	680,481	6,418	.....	6,515
18	Ill. Midland Coal Co....	2	.....	648,271	625,089	3,722	7,757	11,703
	..do.....	1	Pawnee.....	382,588	364,392	3,722	7,650	6,824
	..do.....	1	Sherman.....	265,683	260,697	.....	107	4,879
19	St. Paul Coal Co.....	2	.....	641,994	610,709	3,873	7,151	20,261
	..do.....	1	Granville.....	413,625	393,208	3,873	3,626	12,918
	..do.....	1	Cherry.....	228,369	217,501	.....	3,525	7,343
20	LaSalle Co. C. C. Co....	5	LaSalle.....	627,772	501,273	36,582	57,034	32,883
21	Chi. & Carterville C. Co.	2	Herrin.....	604,954	559,810	8	5,879	39,257
22	United Coal M. Co.....	2	Christopher....	594,148	577,823	.....	12,294	4,031
23	Centralia Coal Co.....	3	Centralia.....	587,227	383,465	144,691	36,659	22,412
24	W. P. Reid Coal Co....	2	.....	558,379	534,326	.....	2,289	21,764
	..do.....	1	Herrin.....	290,938	278,907	.....	965	11,066
	..do.....	1	Rend.....	267,441	255,419	.....	1,324	10,698
25	Johnston City C. Co....	1	Johnston City..	540,236	534,236	.....	.....	6,000
26	Breese-Trenton M. Co..	3	.....	507,277	405,311	54,085	16,191	31,690
	..do.....	1	Breese.....	230,060	162,228	54,085	7,607	6,140
	..do.....	1	Beckemeyer....	171,752	157,658	.....	3,305	10,789
	..do.....	1	Trenton.....	105,465	85,425	.....	5,279	14,761
27	Zeigler Dist. Col. Co....	1	Christopher....	475,386	461,963	.....	3,494	9,929
28	Jones & Adams C. Co....	1	Springfield.....	472,380	462,448	1,672	.....	8,260
29	Big Creek Coal Co.....	3	.....	472,173	452,754	328	1,112	17,979
	..do.....	1	St. David.....	271,729	261,218	192	4	10,315
	..do.....	1	Dunfermline....	190,460	182,014	.....	1,108	7,338
	..do.....	1	Cuba.....	9,984	9,522	136	.....	326

Table 19—Continued.

Number.	Name of operator.	Number of mines.	Postoffice address, location of mine.	Total output all grades.	Disposition of output.			
					Tons loaded on cars at the mine for shipment.	Supplied to locomotives at mine chutes.	Sold to local trade.	Consumed and wasted at mine.
30	Southern Ill. C. Co	3	Herrin	468,073	437,607	.....	7,276	23,190
31	Sesser Coal Co.	1	Sesser	424,449	421,449	.....	.....	3,000
32	Bell & Zollar M. Co.	1	Zeigler	423,687	402,752	625	1,388	18,922
33	Willis C. & M. Co	2	.....	411,320	398,751	.....	1,119	11,450
	..do.....	1	Willisville	222,541	213,836	.....	465	8,240
	..do.....	1	Percy	188,779	184,915	.....	654	3,210
34	Shoal Creek Coal Co.	1	Panama	407,025	388,612	.....	1,846	16,567
35	Maplewood Col. Co.	2	Farmington	389,480	377,124	.....	1,234	11,122
36	Benton Coal Co.	1	Benton	382,465	360,503	.....	9,117	12,845
37	Royal Col. Co.	1	Virden	362,815	331,584	.....	4,614	26,617
38	Joseph Taylor Coal Co. ..	3	O'Fallon	360,591	317,291	.....	1,800	41,500
39	Marion Co. Coal Co.	1	Centralia	357,648	349,568	.....	780	7,300
40	Alden Coal Co.	3	.....	351,661	342,245	.....	3,481	5,935
	..do.....	1	Norris	166,179	159,330	.....	1,925	4,924
	..do.....	1	Matherville	100,653	100,153	.....	.....	500
	..do.....	1	Farmington	84,829	82,762	.....	1,556	511
41	Sunnyside Coal Co	1	Herrin	342,383	300,099	.....	2,063	40,221
42	Taylor Coal Co.	2	..do	336,413	311,404	6,540	413	18,056
43	Star Coal Co.	5	.....	333,836	318,550	1,805	4,001	9,480
	..do.....	3	Cuba	239,262	230,857	1,805	.....	6,600
	..do.....	1	Freeburg	55,461	0,000	.....	4,001	1,460
	..do.....	1	Fiatt	39,113	37,693	.....	.....	1,420
44	Western Coal & M. Co. ..	1	Bush	332,693	314,933	.....	1,172	16,588
45	Hart-Williams C. Co.	1	Benton	332,350	322,209	.....	5,933	4,208
46	Lumaghi Coal Co.	2	Collinsville	329,811	322,285	.....	780	6,746
47	Montgomery Co. Coal Co. ..	1	Hillsboro	329,222	319,222	.....	2,000	8,000
48	Prairie Coal Co.	1	Belleville	325,680	323,054	614	212	1,800
49	Black Diamond C. Co. ..	1	Auburn	311,600	305,720	.....	1,530	4,350
50	B. F. Berry Coal Co.	1	Taft	302,906	288,515	.....	5,335	9,056
51	Christian Co. C. Co.	1	Taylorville	302,278	274,490	.....	12,446	15,342
52	Hillsboro Coal Co.	1	Hillsboro	293,619	274,129	.....	12,927	6,563
53	Burnwell Coal Co.	1	Witt	277,015	269,360	.....	2,108	5,547
54	Woodslides Coal Co.	1	Springfield	269,354	203,935	34,077	25,457	5,885
55	Harrisburg So. C. Co. ...	1	Eldorado	265,136	265,136	.....	.....	.....

Table 19—Continued.

Number.	Name of operator.	Number of mines.	Postoffice address, location of mine.	Total output all grades.	Disposition of output.			
					Tons loaded on cars at the mine for shipment.	Supplied to locomotives at mine chutes.	Sold to local trade.	Consumed and wasted at mine.
56	Girard Col. Co.	1	Girard	263,512	251,599	.....	8,624	3,289
57	Wasson Coal Co.	1	Harrisburg	259,421	256,451	.....	720	2,250
58	Toluca Coal Co.	1	Toluca	257,473	196,528	37,738	7,588	15,619
59	Clarke Coal & C. Co.	1	Peoria	253,414	244,414	.....	.....	9,000
60	Big Four Wilm. C. Co.	2	.....	247,284	224,187	2,079	6,358	14,660
	..do.	1	Coal City	168,337	159,356	.....	1,371	7,610
	..do.	1	Carbon Hill	78,947	64,831	2,079	4,987	7,050
61	Chicago-Sandoval C. Co.	2	Sandoval	244,895	234,525	.....	3,962	6,408
62	Ill. 3d Vein C. Co.	1	Ladd	238,549	191,861	18,889	3,964	23,835
63	Kolb Coal Co.	4	.....	236,666	90,091	123,080	11,760	11,735
	..do.	1	Mascoutah	117,790	20,120	83,410	11,760	2,500
	..do.	2	New Athens	93,601	48,061	39,670	.....	5,870
	..do.	1	Birkner	25,275	21,910	.....	.....	3,365
64	Eldorado C. M. Co.	1	Eldorado	231,966	229,838	.....	778	1,350
65	Latham Coal Co.	1	Lincoln	227,586	204,062	.....	12,251	11,273
66	Pana Coal Co.	2	Pana	227,235	93,527	26,348	100,863	6,497
67	Vivian Col. Co.	1	Greenridge	226,500	220,672	.....	1,619	4,209
68	Capitol Coal Co.	1	Springfield	222,792	172,250	.....	45,952	4,590
69	Kortkamp Coal Co.	1	Hillsboro	222,256	219,492	.....	764	2,000
70	Carterville Coal Co.	1	Carterville	218,418	212,623	.....	1,510	4,285
71	Coal Valley M. Co.	2	.....	217,417	199,052	1,393	5,892	11,080
	..do.	1	Sherrard	111,800	97,320	1,393	5,892	7,195
	..do.	1	Matherville	105,617	101,732	.....	.....	3,885
72	Missouri & Ill. C. Co.	4	.....	215,176	210,146	.....	480	4,550
	..do.	1	Willisville	128,712	127,204	.....	300	1,208
	..do.	1	Rentchler	51,603	49,628	.....	125	1,850
	..do.	1	Wilderman	26,728	25,505	.....	55	1,168
	..do.	1	Freeburg	8,133	7,809	.....	.....	324
73	Franklin C. & C. Co.	1	Royalton	212,112	205,777	.....	985	5,350
74	Glenridge Coal Co.	1	Viriden	212,096	192,946	.....	10,542	8,608
75	Citizens' C. M. Co.	3	.....	210,683	151,746	23,814	23,193	11,930
	..do.	2	Springfield	114,712	106,117	.....	6,933	1,662
	..do.	1	Lincoln	95,971	45,629	23,814	16,260	10,268

Table 19—Continued.

Number.	Name of operator.	Number of mines.	Postoffice address, location of mine.	Total output all grades.	Disposition of output.			
					Tons loaded on cars at the mine for shipment.	Supplied to locomotives at mine chutes.	Sold to local trade.	Consumed and wasted at mine.
76	Monmouth Coal Co.	1	Brereton	206, 430	201, 094	.....	.....	5, 336
77	Oglesby Coal Co.	1	Oglesby	205, 737	186, 864	1, 181	6, 250	11, 442
78	Chicago & B. M. C. Co. .	1	Marion	204, 392	200, 615	.....	262	3, 515
79	Electric C. Co.	1	Danville	201, 857	197, 477	.....	.....	4, 380
80	Hafer W. Coal Co.	1	Carterville	200, 137	185, 127	.....	400	14, 610
81	Chi. Springfield C. Co. .	1	Springfield	199, 478	194, 729	.....	.....	4, 749
82	Ohio Valley M. Co.	1	West Frankfort	197, 773	184, 594	.....	6, 293	6, 886
83	Sangamon C. Co.	1	Springfield	197, 301	184, 799	.....	8, 376	4, 126
84	West Virginia C. Co.	1	Marion	192, 357	188, 062	.....	1, 000	3, 295
85	Penwell C. M. Co.	1	Pana	190, 104	140, 990	25, 461	16, 162	7, 491
86	Cantrall Coop. C. Co.	2	.....	187, 070	164, 126	10, 450	8, 719	3, 775
	do	1	Cantrall	117, 291	103, 786	10, 450	1, 469	1, 586
	do	1	Springfield	69, 779	60, 340	.....	7, 250	2, 189
87	Crescent Coal Co.	1	Peoria	180, 325	179, 696	.....	.....	629
88	Cora Coal Co.	1	Springfield	179, 609	177, 167	.....	1, 132	1, 310
89	Big Muddy Fuel Co.	1	Johnston City	179, 381	174, 976	.....	855	3, 550
90	Majestic C. & C. Co.	1	Duquoin	176, 038	170, 000	.....	.....	6, 038
91	Stonington C. Co.	1	Stonington	175, 516	161, 492	.....	7, 017	7, 007
92	Carterville Dist. C. Co. .	1	Marion	174, 390	156, 390	.....	.....	18, 000
93	Paradise Coal Co.	1	Duquoin	173, 789	143, 255	23, 472	1, 660	5, 402
94	Muddy Valley M. Co. ...	1	Hallidayboro ..	173, 242	107, 582	44, 941	3, 025	17, 694
95	Duquoin Operating Co. .	1	Duquoin	169, 416	165, 000	.....	216	4, 200
96	Odin Coal Co.	1	Odin	167, 138	154, 572	.....	2, 446	10, 120
97	North Breese C. & M. Co.	1	Breese	163, 726	160, 021	.....	.....	3, 705
98	Canton Coal M. Co.	1	Canton	158, 817	157, 017	.....	.....	1, 500
99	Superior C. & M. Co.	1	Belleville	158, 622	155, 944	.....	.....	2, 678
100	Pond Creek Coal Co.	1	Herrin	158, 089	150, 689	.....	100	7, 300
101	Wilmington Star C. Co. .	2	Coal City	157, 522	147, 678	.....	3, 913	5, 931
102	Norris C. & M. Co.	1	Norris	156, 331	131, 301	19, 600	1, 935	3, 495
103	Suburban C. & M. Co. ...	1	Belleville	151, 603	143, 796	.....	5, 446	2, 361
104	Standard Col. Co.	1	Johnston City	149, 666	142, 125	635	1, 873	5, 033
105	Marquette 3d Vein C. Co.	1	Marquette	148, 475	135, 353	.....	2, 027	11, 095
106	Jones Bros. C. Co.	2	Marissa	138, 989	129, 987	.....	2, 620	6, 382
107	Smith-Lohr C. Co.	1	Pana	134, 885	116, 517	.....	4, 916	13, 452

Table 19—Continued.

Number.	Name of operator.	Number of mines.	Postoffice address, location of mine.	Total output all grades.	Disposition of output.			
					Tons loaded on cars at the mine for shipment.	Supplied to locomotives at mine chutes	Sold to local trade.	Consumed and wasted at mine.
108	Clover Leaf M. Co.	1	Coffeen.	134,247	124,462	.....	2,560	7,225
109	Eagle Mining Co.	1	Canton.	132,360	110,656	12,227	6,953	2,524
110	Royal C. & M. Co.	1	Belleville.	131,700	130,279	.....	491	930
111	Pocahontas M. Co.	1	Pocahontas.	131,527	123,380	.....	3,767	4,380
112	Security C. & M. Co.	1	Duquoin.	130,575	127,843	.....	631	2,101
113	Auburn & Alton C. Co. .	1	Auburn.	127,924	116,953	.....	8,971	2,000
114	Simmons C. Co.	1	Canton.	126,463	123,908	.....	.....	2,555
115	Tazewell C. Co.	1	Pekin.	126,206	111,005	.....	11,996	3,205
116	Carterville & Her. C. Co.	1	Herrin.	125,531	121,151	.....	730	3,650
117	Williamson Co. C. Co. .	1	Johnston City..	125,523	124,863	.....	.....	660
118	Kerns Donnewald C. Co.	1	Worden.	122,584	117,399	.....	1,535	3,650
119	Roanoke Coal Co.	1	Roanoke.	122,552	104,288	6,013	6,030	6,221
120	T. J. O'Gara.	1	Springfield.	121,344	100,019	.....	19,823	1,502
121	Wenona Coal Co.	1	Wenona.	121,106	107,096	.....	9,720	4,290
122	West End Coal Co.	1	Springfield.	119,261	90,320	.....	24,141	4,800
123	Williamsville Coal Co. .	1	Selbytown.	118,941	114,687	.....	658	3,596
124	Manu. & Con. C. Co. .	1	Decatur.	117,573	45,622	.....	65,945	6,006
125	Springfield Coop. C. Co.	1	Springfield.	115,300	79,750	.....	31,700	3,850
126	Danville Col. Co.	1	Catlin.	115,176	113,875	.....	1,301	.....
127	St. L. & Carterville C. Co.	1	Herrin.	114,866	111,876	.....	906	2,084
128	Lefton Coal Co.	1	Auburn.	112,648	109,648	.....	.....	3,000
129	Wilson Bros. C. Co.	1	Sparta.	112,312	109,018	.....	2,232	1,062
130	Decatur Coal Co.	3	.....	111,612	38,492	.....	66,189	6,931
	..do.	2	Decatur.	71,870	8,323	.....	59,927	3,620
	..do.	1	Niantic.	39,742	30,169	.....	6,262	3,311
131	Carterville & B. M. C. Co.	1	Cambria.	110,015	104,617	.....	1,653	3,745
132	Watson Coal Co.	2	Herrin.	109,700	107,927	418	300	1,055
133	Deming & Cruickshank.	1	Peoria.	109,648	105,648	.....	.....	4,000
134	Newsam Bros.	1	Kingston Mines	108,233	105,864	.....	186	2,183
135	Wabash Coal Co.	1	Dawson.	105,191	99,190	.....	2,767	3,234
136	Wilm. C. M. & Mfg. Co..	1	Torino.	102,662	93,844	.....	3,468	5,350
137	Car. & Frank Cos.' C. C.	1	Hanaford.	99,540	92,632	.....	1,354	5,554
138	Illinois Fuel Co.	1	Sparta.	97,508	94,987	.....	.....	2,521
139	Farmersville C. M. Co. .	1	Farmersville. .	94,490	87,644	.....	5,589	1,257
140	Ritchey Coal Co.	1	Pinckneyville..	92,612	60,568	25,565	4,267	2,212

Table 19—Continued.

Number.	Name of operator.	Number of mines.	Postoffice address, location of mine.	Total output all grades.	Disposition of output.			
					Tons loaded on cars at the mine for shipment.	Supplied to locomotives at mine chutes.	Sold to local trade.	Consumed and wasted at mine.
141	Lincoln Mining Co	1	Lincoln	91,000	60,000	.....	24,000	7,000
142	Moffat Coal Co.	1	Sparta	89,964	87,064	.....	800	2,100
143	Gus Blair B. M. C. Co.	2	Murphysboro ..	88,173	73,449	.....	8,807	5,917
144	Tuxhorn Coal Co.	1	Springfield	88,066	83,870	.....	1,896	2,300
145	Wolschlag Coop. C. Co.	1	Peoria	87,841	78,604	7,430	39	1,768
146	DeCamp C. M. Co.	1	Staunton	87,349	83,519	.....	50	3,780
147	Fullerton Coal Co.	1	Belleville	86,283	85,083	.....	200	1,000
148	Barclay C. M. Co.	1	Barclay	81,658	75,985	.....	1,173	4,500
149	Bessemer C. & M. Co.	3	.....	77,604	68,300	4,978	2,294	2,032
	do	2	Tilden	59,602	56,295	.....	2,124	1,183
	do	1	Pinckneyville ..	18,002	12,005	4,978	170	849
150	McLean Co. C. Co.	1	Bloomington	77,153	1,380	20,498	47,053	8,222
151	Carlinville Coal Co.	1	Carlinville	76,939	52,977	2,004	17,898	4,060
152	International C. M. Co.	2	O'Fallon	75,793	66,522	.....	1,832	7,439
153	Illinois Zinc Co.	1	Peru	75,585	72,184	.....	845	2,556
154	Spring Creek C. Co.	1	Springfield	75,453	72,640	.....	444	2,369
155	Assumption C. M. Co.	1	Assumption	75,265	54,976	.....	9,968	10,321
156	Dickerson Coal Co.	1	Springfield	74,863	69,557	.....	1,469	3,837
157	Harrison Coal Co.	1	Streator	74,668	55,763	.....	2,348	16,557
158	Tilton Coal Co.	1	Danville	73,941	70,941	.....	.....	3,000
159	National C. M. Co.	1	Farmington	73,471	70,471	.....	1,000	2,000
160	Murphy, Linsky & Kasher	1	Braidwood	71,781	64,579	.....	6,102	1,100
161	Donally-Koenecke C. Co.	1	Cartersville	71,734	68,652	.....	584	2,498
162	Seranton & B. M. C. Co.	1	Marion	70,202	68,730	.....	100	1,372
163	Gartside Coal Co.	1	Murphysboro ..	68,977	44,277	.....	19,230	5,470
164	Wabash Coal Co.	1	Athens	68,551	59,026	.....	4,901	4,624
165	Borders Coal Co.	1	Marissa	64,218	57,841	.....	5,202	1,175
166	Brilliant C. & C. Co.	1	Duquoin	61,780	58,130	.....	1,200	2,450
167	Century Coal Co.	1	Tower Hill	61,409	52,376	.....	3,405	5,628
168	Minonk Coal Co.	1	Minonk	61,344	51,294	.....	6,250	3,800
169	Robert Dick Coal Co.	1	Cambria	59,291	53,291	.....	3,000	3,000
170	Big M.-Cartersville M. Co.	1	Royalton	58,602	56,138	.....	954	1,510
171	Bald Eagle M. Co.	1	Craig	57,498	52,000	.....	1,500	3,998
172	Pittsburg Mining Co.	1	Belleville	56,450	44,370	.....	11,290	790
173	Acme Coal Co.	1	Streator	56,314	28,308	.....	15,281	12,725

Table 19—Continued.

Number.	Name of operator.	Number of mines.	Postoffice address, location of mine.	Total output all grades.	Disposition of output.			
					Tons loaded on cars at the mine for shipment.	Supplied to locomotives at mine chutes.	Sold to local trade.	Consumed and wasted at mine.
174	Johnson Coal Co.....	1	Marissa.....	56,167	54,140	.....	.....	2,027
175	Randolph Co. C. Co....	1	Coulterville.....	55,006	50,930	.....	3,176	900
176	Ill. Valley Coal Co.....	2	Sparland.....	54,268	53,765	.....	503	.....
177	Lovington Coal Co.....	1	Lovington.....	54,162	44,921	.....	3,666	5,575
178	Moweaqua Coal Co.....	1	Moweaqua.....	53,426	38,254	.....	10,864	4,308
179	Mission Mining Co.....	1	Danville.....	53,248	53,000	.....	248	.....
180	No. Coal & Sup. Co.....	1	Sorento.....	51,653	47,607	.....	2,380	1,666
181	Applegate & Lewis C. Co.	1	Hanna City.....	51,503	48,503	.....	600	2,400
182	Brewster & Evans C. Co.	1	Peoria.....	49,946	49,946	.....	.....	.....
183	Cahill Coal Co.....	1	Peru.....	49,270	26,580	5,289	13,594	3,807
184	Silver Creek Col. Co....	1	Farmington.....	48,335	46,135	.....	500	1,700
185	Tallula Coal Co.....	1	Tallula.....	47,712	41,566	.....	5,091	1,055
186	Litchfield Coal Co.....	1	Litchfield.....	44,050	30,647	.....	11,403	2,000
187	Kewanee Coal Co.....	1	Kewanee.....	42,995	38,422	.....	3,009	1,564
188	Olympia C. & M. Co.....	1	Edwards.....	42,900	40,765	.....	300	1,835
189	City Coal Co.....	1	Edwardsville..	42,442	21,838	4,589	13,489	2,526
190	Blue Mound Coal Co....	1	Blue Mound..	42,441	32,159	.....	6,590	3,692
191	Black Diamond C. Co....	1	Danville.....	42,370	42,370	.....	.....	.....
192	Rutland Coal Co.....	1	Rutland.....	40,666	25,576	7,296	4,508	3,286
193	Summit C. & M. Co.....	1	Belleville.....	40,532	39,688	.....	316	528
194	Egyptian C. & M. Co....	2	Marissa.....	40,531	37,233	.....	640	2,658
195	Mulberry Hill Coal Co..	1	Freeburg.....	40,440	38,400	.....	960	1,080
196	Dewey C. & M. Co.....	1	Belleville.....	40,200	39,700	.....	.....	500
197	South Mountain C. Co..	1	Petersburg.....	38,950	24,841	1,981	11,528	600
198	Pittsburg B. M. C. Co..	1	Pittsburg.....	38,363	36,163	.....	1,000	1,200
199	Fairmount Coal Co.....	1	Fairmount.....	38,250	31,350	.....	5,640	1,260
200	Collier Coop. Coal Co...	1	Bartonville...	38,220	37,020	.....	.....	1,200
201	Edwardsville H. T. C. C.	1	Edwardsville..	37,997	17,500	.....	20,097	400
202	Boyd C. & C. Co.....	1	Sparta.....	37,951	34,889	.....	2,241	821
203	St. L.-Coulterville C. Co.	1	Coulterville.....	37,192	32,916	.....	3,076	1,200
204	Johnson-Allen Coal Co..	1	Cutler.....	37,000	37,000	.....	.....	.....
205	Wilharmel C. & C. Co..	1	Belleville.....	36,890	29,163	.....	7,120	607
206	Eastern Coal Co.....	1	Peoria.....	34,912	15,268	.....	18,863	781
207	Greenview M. Co.....	1	Greenview.....	34,022	27,745	.....	4,741	1,536

Table 19—Continued.

Number.	Name of operator.	Number of mines.	Postoffice address, location of mine.	Total output all grades.	Disposition of output.			
					Tons loaded on cars at the mine for shipment.	Supplies to locomotives at mine chutes.	Sold to local trade.	Consumed and wasted at mine.
208	Norris City Coal Co.....	1	Norris City	31,774	19,936	3,546	6,753	1,539
209	Ill. Central Fuel Co.....	1	Nilwood.....	30,850	26,800	.....	3,050	1,000
210	Fairbury Coal Co.....	1	Fairbury	29,682	4,793	16,356	1,486	7,047
211	Glendale C. & M. Co.....	1	Belleville.....	29,660	23,083	.....	5,504	1,073
212	Groom Coal Co.....	1	Belleville.....	29,405	28,910	.....	195	300
213	Bushong Bros.....	1	Muncie	28,819	25,000	.....	2,816	1,003
214	Gallatin C. & C. Co.....	1	Equality	28,439	23,064	4,615	629	131
215	Spoon River Coal Co ...	1	Mayton.....	27,444	25,967	.....	200	1,277
216	Ubben Coal Co.....	1	Pekin.....	26,930	15,930	.....	10,000	1,000
217	J. B. Kreichemeir	1	DeSoto.....	26,749	24,999	.....	50	1,700
218	Bailey Bros. C. Co.....	2	Sunfield.....	26,646	22,410	.....	3,236	1,000
219	L. Senior Coal Co.....	1	Belleville.....	25,910	23,760	.....	1,250	900
220	Chuly-Miller Coal Co.....	1	Caseyville	25,584	25,000	.....	.....	584
221	Mapleton Coal Co.....	1	Mapleton.....	24,221	23,721	.....	.....	500
222	Gauch Coal Co.....	1	Rentchler.....	23,740	22,536	.....	173	1,031
223	Little Muddy Fuel Co..	1	Tamaroa.....	22,780	18,708	.....	3,694	378
224	Tirre C. & M. Co.	1	Lenzburg.....	22,414	21,349	.....	465	600
225	Warsaw Coal Co.....	1	Edwards.....	22,312	21,364	.....	95	853
226	Wilson Coal Co.....	1	Cutler.....	22,130	15,202	.....	1,566	963
227	Highland Coal Co.....	1	Belleville.....	22,038	8,036	1,089	11,282	1,631
228	F. Sargent & Son.....	1	do.....	21,429	20,603	.....	200	626
229	Lancaster Ldg. C. Co...	1	Kingston Mine.	21,402	20,652	.....	500	250
230	Isaac Wantling & Co. ...	1	Peoria.....	20,972	20,972	.....	.....	.....
231	St. Louis C. & C. Co....	1	Galatia.....	20,000	15,500	.....	4,000	500
232	Colfax Corp. Co.....	1	Colfax.....	19,745	9,267	2,806	5,008	2,664
233	Maul C. & M. Co.....	1	Belleville.....	19,367	18,299	.....	.....	1,068
234	Hickory Hill C. Co.....	1	Equality.....	19,225	19,225	.....	.....	.....
235	Vulcan C. & M. Co.....	1	Belleville.....	18,259	17,014	.....	.....	1,245
236	T. M. Meeks Coal Co....	1	Marissa.....	17,875	17,296	.....	6	573
237	Nicholson Coal Co.....	1	Nashville.....	17,842	6,028	2,055	9,109	650
238	Sharon C. & B. Co.....	1	Georgetown....	17,715	1,296	.....	15,887	532
239	Adam Kuhn.....	1	Dubois.....	17,280	11,000	.....	3,000	3,280
240	White & Son.....	1	Belleville.....	16,983	10,483	.....	6,286	214
241	Brookside Coal Co.....	1	Troy.....	16,535	11,574	.....	3,300	1,661
242	Crescent Coal Co.....	1	Equality.....	15,463	14,043	.....	945	475

Table 19—Concluded.

Number.	Name of operator.	Number of mines.	Postoffice address, location of mine.	Total output all grades.	Disposition of output.			
					Tons loaded on cars at the mine for shipment.	Supplies to locomotives at mine chutes.	Sold to local trade.	Consumed and wasted at mine.
243	German Coal Co.	1	Napleton.....	15,214	13,818	.....	992	404
244	W. S. Walker.	1	Edwardsville...	15,100	13,600	.....	1,000	500
245	West-Mine C. Co.	1	Coulterville....	15,044	12,971	.....	1,005	1,068
246	Mt. Pulaski Coal Co.	1	Mt. Pulaski....	14,998	2,800	.....	10,958	1,240
247	Reeb Coal Co.	1	Belleville.....	14,324	7,802	.....	6,522	.....
248	Champion Coal Co.	1	Pekin.....	14,000	11,500	900	1,000	600
249	Wyoming M. Co.	1	Wyoming.....	13,326	10,056	.....	2,320	950
250	Coal Creek M. Co.	1	Fairview.....	13,071	13,071	.....	.....	.....
251	Central Ill. Fuel Co.	1	Coal Valley....	13,040	11,135	.....	825	1,080
252	Avery Coal Co.	1	Freeburg.....	12,865	11,179	.....	1,155	531
253	Joe Morris C. Co.	1	Duquoin.....	11,983	10,983	4,399	600	400
254	West Frankfort C. Co. ..	1	West Frankfort	11,401	4,169	.....	4,213	3,019
255	Sunlight Coal Co.	1	Freeburg.....	10,886	10,049	.....	450	387
256	Traer Coal Co.	1	Danville.....	10,775	10,480	.....	250	45
257	New Nat. C. & M. Co. ...	1	Belleville.....	8,992	8,492	.....	.....	500
258	Fulton Co. C. Co.	1	Sparland.....	8,884	2,260	.....	5,649	975
259	Spicer Coal Co.	1	Marseilles.....	8,869	6,043	.....	2,368	458
260	Mt. Vernon Coal Co.	1	Mt. Vernon....	7,958	3,122	.....	3,916	920
261	Silver Creek C. Co.	1	Mascoutah....	7,824	7,664	.....	.....	160
262	C. J. Off.	1	Peoria.....	7,754	7,690	.....	.....	64
263	Missionfields C. Co.	2	Danville.....	6,314	6,185	.....	129	.....
264	Strait Coal Co.	1	Pinckneyville..	3,846	1,231	.....	2,315	300
265	Golden Rule Coal Co. ..	1	Lenzburg.....	3,042	1,547	.....	1,245	250
266	Orion Coal Co.	1	Duquoin.....	2,400	2,200	.....	.....	200
267	Eldnar Coal Co.	1	Belleville.....	2,147	2,052	.....	15	80
268	Wilfred Coal Co.	1	Seneca.....	1,938	400	.....	1,138	400

CLASSIFICATION OF OWNERSHIP.

Table 20. The classification of the ownership of the shipping mines for a series of nine years is given in this table.

TABLE 20—*Number of shipping mines and location with classification of ownership for nine years.*

Year.	Total number of mines.	Number of locations.	Operators.			Total.
			Corporations.	Firms.	Individuals.	
1904.....	380	175	228	20	25	273
1905.....	397	173	242	21	17	280
1906.....	419	178	248	21	16	285
1907.....	411	180	261	9	6	276
1908.....	407	172	251	8	9	268
1909.....	384	171	252	7	8	267
1910.....	390	185	253	8	7	268
1911.....	387	184	260	9	3	272
1912.....	380	175	258	6	4	268

LOCATION OF MINES.

Table 21 is a list of the 275 places where the mines are operated. The locations are arranged in alphabetical order and show the county, the inspection district, the number of mines, men employed and tons produced at each.

TABLE 21—*Location of all mines, showing county and district, also number of mines, men and tons.*

No.	Location of mines.	County.	Number of—			
			District.	Mines.	Men.	Tons.
1	Aledo.....	Mercer.....	2	2	16	7,848
2	Alexis.....	Warren.....	2	3	14	5,242
3	Alsey.....	Scott.....	4	4	11	2,930
4	Alton.....	Madison.....	8	1	4	700
5	Assumption.....	Christian.....	5	1	158	75,265
6	Astoria.....	Fulton.....	4	7	27	8,173
7	Athens.....	Menard.....	3	1	130	68,561
8	Atkinson.....	Henry.....	2	1	4	560
9	Auburn.....	Sangamon.....	6	3	665	552,172

Table 21—Continued.

No.	Location of mines.	County.	Number of—			
			District.	Mines.	Men.	Tons.
10	Angusta.....	Hancock.....	4	1	7	2,920
11	Ava.....	Jackson.....	10	3	15	1,725
12	Avon.....	Fulton.....	4	8	24	3,772
13	Banner.....	do.....	4	1	2	500
14	Barclay.....	Sangamon.....	6	1	140	81,658
15	Bartonville.....	Peoria.....	3	4	91	83,691
16	Beekemeyer.....	Clinton.....	8	1	266	171,752
17	Belleville.....	St. Clair.....	9	32	2,258	1,962,055
18	Benton.....	Franklin.....	11	2	863	714,815
19	Bethalto.....	Madison.....	8	3	16	3,287
20	Birkner.....	St. Clair.....	9	1	44	25,275
21	Birmingham.....	McDonough.....	4	2	4	688
22	Blandinville.....	do.....	4	2	12	2,080
23	Bloomington.....	McLean.....	6	1	168	77,153
24	Blue Mound.....	Macon.....	5	1	76	42,441
25	Braidwood.....	Will.....	1	2	179	76,339
26	Breeds.....	Fulton.....	4	5	12	2,595
27	Breese.....	Clinton.....	8	3	667	488,929
28	Brereton.....	Fulton.....	4	1	292	206,430
29	Briar Bluff.....	Henry.....	2	5	8	1,258
30	Brighton.....	Jersey.....	7	1	3	800
31	Brimfield.....	Peoria.....	3	6	26	11,043
32	Bunker Hill.....	Macoupin.....	7	3	26	21,624
33	Bush.....	Williamson.....	12	1	355	332,693
34	Cable.....	Mercer.....	2	2	7	1,406
35	Cambria.....	Williamson.....	12	2	327	169,306
36	Cambridge.....	Henry.....	2	1	7	898
37	Campbell Hill.....	Jackson.....	10	1	1	253
38	Canton.....	Fulton.....	4	19	588	441,810
39	Cantrall.....	Sangamon.....	6	1	159	117,291
40	Carbon Cliff.....	Rock Island.....	2	2	15	4,860
41	Carbondale.....	Jackson.....	10	4	24	12,345
42	Carbon Hill.....	Grundy.....	1	1	213	78,947
43	Cardiff.....	Livingston.....	1	1	32	5,309
44	Carlinville.....	Macoupin.....	7	1	108	76,939
45	Carrier Mills.....	Saline.....	11	2	6	5,700
46	Carterville.....	Williamson.....	12	6	629	502,394

Table 21—Continued.

No.	Location of mines.	County.	Number of—			
			District.	Mines.	Men.	Tons.
47	Caseyville.....	St. Clair.....	9	2	40	27, 284
48	Catlin.....	Vermilion.....	5	4	160	120, 946
49	Centralia.....	Marion.....	8	4	1, 135	944, 875
50	Cherry.....	Bureau.....	2	1	402	228, 369
51	Chesterfield.....	Macoupin.....	7	1	5	804
52	Chillicothe.....	Peoria.....	3	5	70	11, 489
53	Christopher.....	Franklin.....	11	3	983	1, 069, 534
54	Clifford.....	Williamson.....	12	1	366	570, 695
55	Coal City.....	Grundy.....	1	3	754	325, 859
56	Coal Valley.....	Rock Island.....	2	4	101	53, 887
57	Coffeen.....	Montgomery.....	7	1	215	134, 247
58	Colchester.....	McDonough.....	4	24	84	12, 682
59	Colfax.....	McLean.....	6	1	32	19, 745
60	Collinsville.....	Madison.....	8	8	1, 306	1, 111, 311
61	Collison.....	Vermilion.....	5	1	13	4, 000
62	Coulterville.....	Randolph.....	10	3	187	107, 242
63	Crab Orchard.....	Williamson.....	12	6	16	2, 770
64	Craig.....	Perry.....	10	1	149	57, 498
65	Cuba.....	Fulton.....	4	23	510	264, 993
66	Cutler.....	Perry.....	10	2	85	59, 130
67	Dahinda.....	Knox.....	2	2	3	400
68	Dalzell.....	Bureau.....	2	1	685	316, 788
69	Danville.....	Vermilion.....	5	26	647	520, 364
70	Dawson.....	Sangamon.....	6	1	140	105, 191
71	Decatur.....	Macon.....	5	3	460	189, 443
72	Desoto.....	Jackson.....	10	4	127	29, 499
73	Dewmaine.....	Williamson.....	12	2	800	712, 524
74	Divernon.....	Sangamon.....	6	1	514	354, 650
75	Dubois.....	Washington.....	10	1	59	17, 280
76	Dunfermline.....	Fulton.....	4	1	258	190, 460
77	Duquoin.....	Perry.....	10	9	1, 257	733, 239
78	East St. Louis.....	St. Clair.....	9	2	982	693, 414
79	Edgemont.....	do.....	9	1	4	622
80	Edinburg.....	Christian.....	5	1	13	5, 688
81	Edwards.....	Peoria.....	3	9	140	68, 272
82	Edwardsville.....	Madison.....	8	4	169	104, 356
83	Eldorado.....	Saline.....	11	2	412	497, 102

Table 21—Continued.

No.	Location of mines.	County.	Number of—			
			District.	Mines.	Men.	Tons.
84	Ellisville.....	Fulton.....	4	1	12	6,500
85	Elmwood.....	Peoria.....	3	1	8	3,200
86	Equality.....	Gallatin.....	11	10	158	71,032
87	Fairbury.....	Livingston.....	1	2	66	43,707
88	Fairmount.....	Vermilion.....	5	3	78	42,650
89	Fairview.....	Fulton.....	4	9	45	19,441
90	Fancy Prairie.....	Menard.....	3	1	8	6,510
91	Farmersville.....	Montgomery.....	7	1	160	94,490
92	Farmington.....	Fulton.....	4	6	973	603,865
93	Flatt.....	do.....	4	3	114	40,213
94	Freeburg.....	St. Clair.....	9	6	265	128,945
95	Galatia.....	Saline.....	11	1	48	20,000
96	Galesburg.....	Knox.....	2	3	29	10,821
97	Galva.....	Henry.....	2	1	4	880
98	Geneseo.....	do.....	2	1	6	1,160
99	Georgetown.....	Vermilion.....	5	1	26	17,715
100	Gillespie.....	Macoupin.....	7	3	1,716	2,303,531
101	Girard.....	do.....	7	1	320	263,512
102	Glasford.....	Peoria.....	3	6	16	5,200
103	Glen Carbon.....	Madison.....	8	2	538	377,917
104	Golden Eagle.....	Calhoun.....	7	1	10	1,660
105	Granville.....	Putnam.....	3	1	774	413,625
106	Grape Creek.....	Vermilion.....	5	3	15	6,450
107	Greenfield.....	Greene.....	7	1	11	5,400
108	Greenridge.....	Macoupin.....	7	1	274	226,500
109	Greenview.....	Menard.....	3	1	45	34,022
110	Hallidayboro.....	Jackson.....	10	1	246	173,242
111	Hampton.....	Rock Island.....	2	2	8	603
112	Hanaford.....	Franklin.....	11	1	131	99,540
113	Hanna City.....	Peoria.....	3	4	98	52,823
114	Harrisburg.....	Saline.....	11	14	3,569	2,956,609
115	Herrin.....	Williamson.....	12	15	3,617	2,864,456
116	Hillsboro.....	Montgomery.....	7	3	936	845,097
117	Industry.....	McDonough.....	4	3	17	3,332
118	Ipava.....	Fulton.....	4	6	15	2,025
119	Johnston City.....	Williamson.....	12	4	1,088	994,806
120	Kangley.....	LaSalle.....	1	1	2	250

Table 21—Continued.

No.	Location of mines.	County.	Number of—			
			District.	Mines.	Men.	Tons.
121	Kewance	Henry	2	13	198	81,875
122	Kingston Mines	Peoria	3	3	179	130,943
123	Knoxville	Knox	2	2	8	1,760
124	Ladd	Bureau	2	1	570	238,549
125	LaFayette	Stark	2	2	10	3,216
126	LaSalle	LaSalle	1	7	1,785	776,016
127	Laura	Peoria	3	1	3	1,003
128	Lebanon	St. Clair	9	1	13	8,250
129	Ledford	Saline	11	3	636	604,040
130	Lenzburg	St. Clair	9	3	68	27,256
131	Lewistown	Fulton	4	15	47	9,480
132	Lincoln	Logan	6	3	643	414,557
133	Litchfield	Montgomery	7	1	75	44,050
134	Livingston	Madison	8	1	622	737,632
135	Lovington	Moultrie	5	1	68	54,162
136	Macomb	McDonough	4	7	19	1,930
137	Maple Mills	Fulton	4	4	10	1,910
138	Mapleton	Peoria	3	6	89	44,820
139	Marietta	Fulton	4	7	28	4,000
140	Marion	Williamson	12	9	1,436	1,105,465
141	Marissa	St. Clair	9	8	586	321,990
142	Marseilles	LaSalle	1	2	120	34,811
143	Marquette	Bureau	2	1	360	148,475
144	Maryville	Madison	8	1	450	380,904
145	Mascoutah	St. Clair	9	3	140	131,391
146	Matherville	Mercer	2	2	296	206,270
147	Mathews	Jackson	10	1	2	508
148	Mayton	Fulton	4	1	59	27,444
149	Middle Grove	Knox	2	2	8	3,200
150	Millstadt	St. Clair	9	3	20	15,056
151	Mineral	Bureau	2	1	8	4,800
152	Minonk	Woodford	3	1	157	61,344
153	Mitchellville	Saline	11	1	4	3,000
154	Moline	Rock Island	2	4	24	10,066
155	Monmouth	Warren	2	2	9	1,060
156	Moro	Madison	8	1	5	1,800
157	Morris	Grundy	1	7	51	13,782

Table 21—Continued.

No.	Location of mines.	County.	Number of—			
			District.	Mines.	Men.	Tons.
158	Mt. Olive.....	Maeoupin.....	7	3	923	879,894
159	Mt. Pulaski.....	Logan.....	6	1	34	14,998
160	Mt. Vernon.....	Jefferson.....	10	1	45	7,958
161	Moweaqua.....	Shelby.....	5	1	104	53,426
162	Muncie.....	Vermilion.....	5	1	50	28,819
163	Murphysboro.....	Jackson.....	10	6	737	498,502
164	Murrayville.....	Morgan.....	4	1	8	1,085
165	Nashville.....	Washington.....	10	1	68	17,842
166	New Athens.....	St. Clair.....	9	3	112	101,217
167	New Baden.....	Clinton.....	8	1	382	352,301
168	New Burnside.....	Johnson.....	12	3	10	3,871
169	New Windsor.....	Mercer.....	2	1	7	1,644
170	Niantie.....	Macon.....	5	1	61	39,742
171	Nilwood.....	Maeoupin.....	7	1	142	30,850
172	Nokomis.....	Montgomery.....	7	1	137	111,480
173	Norris.....	Fulton.....	4	4	501	323,585
174	Norris City.....	White.....	11	1	55	31,744
175	Oak Hill.....	Peoria.....	3	2	3	1,300
176	Oakwood.....	Vermilion.....	5	1	4	500
177	Odin.....	Marion.....	8	1	215	167,138
178	O'Fallon.....	St. Clair.....	9	5	693	436,384
179	Oglesby.....	LaSalle.....	1	1	443	205,737
180	Oneida.....	Knox.....	2	3	11	3,170
181	Opdyke.....	Jefferson.....	10	1	3	80
182	Ottawa.....	LaSalle.....	1	6	13	2,000
183	Pana.....	Christian.....	5	4	974	552,224
184	Panama.....	Montgomery.....	7	1	426	407,025
185	Pawnee.....	Sangamon.....	6	1	461	382,588
186	Percy.....	Randolph.....	10	1	221	188,779
187	Pekin.....	Tazewell.....	3	3	230	167,136
188	Peoria.....	Peoria.....	3	27	1,154	869,527
189	Peru.....	LaSalle.....	1	2	333	124,855
190	Petersburg.....	Menard.....	3	4	104	54,409
191	Pinckneyville.....	Perry.....	10	5	330	118,534
192	Pittsburg.....	Williamson.....	12	1	92	38,363
193	Pleasant Plains.....	Sangamon.....	6	2	8	2,098
194	Pocahontas.....	Bond.....	8	1	186	131,527

Table 21—Continued.

No.	Location of mines.	County.	Number of—			
			District.	Mines.	Men.	Tons.
195	Pontiac.....	Livingston.....	1	1	12	3,267
196	Preemption.....	Mercer.....	2	1	8	3,500
197	Rapatee.....	Knox.....	2	4	10	2,784
198	Rend.....	Franklin.....	11	1	295	267,441
199	Rentchler.....	St. Clair.....	9	2	125	75,343
200	Ridgway.....	Gallatin.....	11	1	3	550
201	Riverton.....	Sangamon.....	6	1	398	388,937
202	Roanoke.....	Woodford.....	3	1	266	122,552
203	Rock Island.....	Rock Island.....	1	1	9	2,820
204	Roseville.....	Warren.....	2	2	5	528
205	Royalton.....	Franklin.....	11	2	443	270,714
206	Rushville.....	Schuyler.....	4	1	5	2,126
207	Rutland.....	LaSalle.....	1	1	103	40,666
208	St. David.....	Fulton.....	4	4	370	274,999
209	St. John.....	Perry.....	10	1	3	45
210	St. Libori.....	St. Clair.....	9	1	3	300
211	Saline Mines.....	Gallatin.....	11	1	4	1,000
212	Salsbury.....	Sangamon.....	6	1	5	1,191
213	Sandoval.....	Marion.....	8	2	338	244,895
214	Seatonville.....	Bureau.....	2	1	524	220,037
215	Selbytown.....	Sangamon.....	6	1	142	118,941
216	Seneca.....	LaSalle.....	1	1	33	1,938
217	Sesser.....	Franklin.....	11	1	343	424,449
218	Shawneetown.....	Gallatin.....	11	2	6	2,388
219	Sheffield.....	Bureau.....	2	3	32	11,901
220	Shelbyville.....	Shelby.....	5	6	64	13,709
221	Sheldon Grove.....	Schuyler.....	4	3	5	610
222	Sherman.....	Sangamon.....	6	1	414	265,683
223	Sherrard.....	Mercer.....	2	1	175	111,800
224	Smithton.....	St. Clair.....	9	1	4	2,800
225	Sorento.....	Bond.....	8	1	130	51,653
226	South Wilmington.....	Grundy.....	1	2	694	337,800
227	Sparland.....	Marshall.....	3	11	164	68,515
228	Sparta.....	Randolph.....	10	7	480	355,099
229	Spaulding.....	Sangamon.....	6	1	131	37,488
230	Springfield.....	do.....	6	18	3,680	2,594,391
231	Spring Valley.....	Bureau.....		2	1,360	511,874

Table 21—Continued.

No.	Location of mines.	County.	Number of—			
			District.	Mines.	Men.	Tons.
232	Staunton.....	Macoupin.....	7	4	1,592	1,439,560
233	Steelton.....	Vermilion.....	5	2	627	503,758
234	Stonefort.....	Saline.....	11	3	4	774
235	Stonington.....	Christian.....	5	1	226	175,516
236	Streator.....	LaSalle.....	1	17	842	435,929
237	Sumner.....	Fulton.....	4	2	7	1,300
238	Sunfield.....	Perry.....	10	2	65	26,646
239	Swan Creek.....	Warren.....	2	1	3	90
240	Sweetwater.....	Menard.....	3	1	7	4,300
241	Table Grove.....	Fulton.....	4	3	10	1,650
242	Taft.....	Putnam.....	3	1	580	302,906
243	Tallula.....	Menard.....	3	3	77	52,401
244	Tamaroa.....	Perry.....	10	1	98	22,780
245	Taylorville.....	Christian.....	5	2	700	537,498
246	Tennessee.....	McDonough.....	4	1	3	100
247	Thayer.....	Sangamon.....	6	1	525	486,140
248	Tice.....	Menard.....	3	1	5	225
249	Tilden.....	Randolph.....	10	2	209	59,602
250	Tiskilwa.....	Bureau.....	2	2	4	310
251	Toluca.....	Marshall.....	3	1	653	257,473
252	Torino.....	Will.....	1	1	250	102,662
253	Toulon.....	Stark.....	2	1	5	2,004
254	Tower Hill.....	Shelby.....	5	1	107	61,409
255	Trenton.....	Clinton.....	8	1	180	105,465
256	Troy.....	Madison.....	8	2	389	225,611
257	Utica.....	LaSalle.....	1	2	11	2,682
258	Vergennes.....	Jackson.....	10	1	6	8,300
259	Vermont.....	McDonough.....	4	2	8	2,800
260	Victoria.....	Knox.....	2	5	18	4,953
261	Viola.....	Mercer.....	2	3	12	2,200
262	Virden.....	Macoupin.....	7	2	667	574,911
263	Wataga.....	Knox.....	2	4	23	7,149
264	Wenona.....	Marshall.....	3	1	250	121,106
265	West Frankfort.....	Franklin.....	11	4	760	549,717
266	Westville.....	Vermilion.....	5	6	2,387	2,129,241
267	Wilderman.....	St. Clair.....	9	1	67	26,728
268	Williamsfield.....	Knox.....	2	1	4	480

Table 21—Concluded.

No.	Location of mines.	County.	Number of—			
			District.	Mines.	Men.	Tons.
269	Willisville.....	Perry.....	10	3	378	352,199
270	Winchester.....	Scott.....	4	2	4	830
271	Witt.....	Montgomery...	7	2	723	643,952
272	Worden.....	Madison.....	8	2	166	122,856
273	Wyoming.....	Stark.....	2	5	67	27,526
274	Youngstown.....	Warren.....	2	1	2	106
275	Zeidler.....	Franklin.....	11	1	440	423,687
	Total.....			879	79,411	57,514,240

Table 22 gives by districts the total output of the shipping mines, the different grades into which it is usually divided and the number of tons in each grade.

TABLE 22—Total output of shipping and local mines of the State, with tons of the different grades of coal, by districts—1912.

Districts.	Total output—Tons.	Tons of the different grades of coal—					
		Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.
First.....	2,351,330	447,687	1,033,522	316,866	23,489	423,130	106,636
Second.....	2,051,523	103,343	1,396,702	174,276	9,626	318,086	49,488
Third.....	2,767,346	375,244	1,527,563	203,942	75,664	492,554	92,379
Fourth.....	2,333,758	285,031	755,099	610,141	50,333	590,782	42,772
Fifth.....	5,002,440	1,817,457	1,476,374	58,938	207,460	689,280	752,931
Sixth.....	5,928,518	1,302,615	2,167,105	767,803	283,301	1,237,594	170,100
Seventh.....	7,170,963	1,648,236	3,244,220	462,334	117,334	807,016	891,823
Eighth.....	5,801,039	1,123,822	2,482,809	403,147	324,598	1,198,505	268,158
Ninth.....	4,409,341	602,208	2,422,996	89,912	142,777	870,292	281,156
Tenth.....	3,023,244	1,546,403	721,285	115,288	101,183	473,100	66,085
Eleventh.....	8,198,472	1,224,211	2,818,444	936,806	701,202	2,366,533	151,276
Twelfth.....	7,058,621	2,126,557	1,209,533	771,111	1,141,029	1,622,076	188,315
Shipping mines..	56,096,695	12,602,814	21,255,652	4,910,566	3,177,996	11,088,548	3,061,119
Local mines.....	1,417,545	763,695	539,875	29,865	15,960	20,643	47,507
Total.....	57,514,240	13,366,509	21,795,527	4,940,431	3,193,956	11,109,191	3,108,626

Table 23 shows the per cent of the total output of the shipping mines produced in each district. Also the per cent of each grade of coal is shown by districts.

TABLE 23—*Percentages of total output of the different grades of coal, shipping and local mines, by districts—1912.*

Districts.	Percentages of the different grades of coal.						
	Percent of total output.	Mine run.	Lump.	Egg.	Nut.	Pea.	Slack or waste.
First.....	4.19	19.04	43.96	13.48	1.00	17.96	4.56
Second.....	3.66	5.04	68.09	8.46	0.48	15.51	2.42
Third.....	4.93	13.56	55.20	7.37	2.73	17.80	3.34
Fourth.....	4.16	12.22	32.36	26.15	2.16	25.30	1.81
Fifth.....	8.92	36.33	29.51	1.18	4.15	13.78	15.05
Sixth.....	10.57	21.98	36.53	12.96	4.78	20.88	2.87
Seventh.....	12.78	22.98	45.24	6.45	1.64	11.25	12.44
Eighth.....	10.35	19.37	42.80	6.95	5.60	20.66	4.62
Ninth.....	7.84	13.66	54.95	2.04	3.24	19.73	6.38
Tenth.....	5.39	51.15	23.86	3.82	3.35	15.62	2.20
Eleventh.....	14.62	14.93	34.38	11.43	8.54	28.87	1.85
Twelfth.....	12.59	30.13	17.14	10.92	16.16	22.98	2.67
Shipping mines..	100.00	22.47	37.89	8.76	5.67	19.77	5.44
Local mines.....	100.00	53.87	38.09	2.11	1.13	1.45	3.35

Table 24 gives the total output of all mines, the number of tons in each grade and the per cent the tonnage of each grade is of the total output for a period of thirteen years.

TABLE 24—*Total output of the different grades of coal, all mines, for thirteen years with percentages.*

Year.	Total output—Tons.	Tons of the different grades of coal.					
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack. or waste.
1900.....	25,153,929	5,554,417	13,927,899	495,637	1,323,582	2,811,520	1,040,874
1901.....	26,635,319	6,882,740	13,321,124	486,596	1,217,127	3,217,127	1,060,141
1902.....	30,021,300	6,986,204	15,041,673	680,985	1,586,456	4,604,232	1,121,750
1903.....	34,955,400	10,373,097	15,874,509	995,163	1,755,704	4,540,431	1,416,195
1904.....	37,077,897	10,627,904	16,888,010	1,014,700	1,602,383	5,751,570	1,193,330
1905.....	37,183,374	9,248,558	16,819,321	1,716,219	2,036,152	6,247,511	1,115,613
1906.....	38,317,581	9,777,905	16,878,088	1,850,427	1,931,988	6,622,087	1,257,086
1907.....	47,798,621	11,628,302	20,599,509	2,469,442	2,625,306	9,138,044	1,338,018
1908.....	49,272,452	11,224,540	21,166,563	2,594,336	2,788,120	9,640,914	1,857,979
1909.....	49,163,710	8,715,759	21,680,602	3,444,612	2,944,036	10,587,057	1,791,644
1910.....	48,717,853	10,220,456	20,769,930	3,334,059	2,846,693	10,174,677	1,372,038
1911.....	50,165,099	13,025,663	19,588,409	3,725,073	2,425,712	10,268,458	1,131,184
1912.....	57,514,240	13,366,509	21,795,527	4,940,431	3,193,956	11,109,191	3,108,626
Percentages—							
1900.....		22.08	55.37	1.97	5.26	11.18	4.14
1901.....		25.84	50.01	1.83	4.57	13.77	3.98
1902.....		23.27	50.10	2.27	5.28	15.34	3.74
1903.....		29.70	45.41	2.84	5.02	12.98	4.05
1904.....		28.66	45.55	2.73	4.32	15.51	3.23
1905.....		24.87	45.23	4.62	5.48	16.80	3.00
1906.....		25.52	44.04	4.83	5.04	17.28	3.28
1907.....		24.33	43.09	5.17	5.49	19.12	2.80
1908.....		22.78	42.96	5.27	5.66	19.57	3.76
1909.....		17.73	44.10	7.01	5.99	21.53	3.64
1910.....		20.98	42.63	6.84	5.84	20.89	2.82
1911.....		25.96	39.05	7.43	4.84	20.47	2.25
1912.....		23.25	37.91	8.60	5.56	19.32	5.36

Table 25 shows for thirty-one years a condensed record of the coal-mining industry of the State each year of the series. The number of mines, number of men and the output in tons is shown, also the tonnage and percentages of each grade.

TABLE 25—*Output of the State for thirty-one years and the mines and men producing the same.*

Year.	Number of—				Tons of—		Percentage of—	
	Coun- ties.	Mines.	Men.	Tons.	Lump.	Other grades.	Lump.	Other grades.
1882.....	42	704	20,290	11,017,653	9,115,653	1,901,506	.....	.....
1883.....	47	639	23,939	12,123,456	10,030,991	2,092,565	.....	.....
1884.....	49	741	25,575	12,208,075	10,101,005	2,107,070	.....	.....
1885.....	50	778	25,946	11,834,459	9,791,874	2,402,585	.....	.....
1886.....	50	787	25,846	11,175,241	9,246,435	1,928,806	.....	.....
1887.....	49	801	26,804	12,423,066	10,278,890	2,144,176	.....	.....
1888.....	50	822	29,410	14,328,181	11,855,188	2,472,993	.....	.....
1889.....	49	854	30,076	14,017,298	11,597,963	2,419,335	.....	.....
1890.....	57	936	28,574	15,274,727	12,638,364	2,636,363	82.74	17.26
1891.....	57	918	32,951	15,660,698	12,960,224	2,700,474	82.76	17.24
1892.....	55	839	33,632	17,862,276	14,730,963	3,131,313	82.47	17.53
1893.....	56	788	35,390	19,949,464	16,112,899	3,836,665	80.77	19.23
1894.....	56	836	38,477	17,113,576	13,865,284	3,248,292	81.02	18.98
1895.....	54	874	38,630	17,735,864	14,045,962	3,689,902	79.25	20.75
1896.....	51	901	37,057	19,786,626	14,210,024	5,576,602	71.86	28.14
1897.....	50	853	33,788	20,072,758	14,672,241	5,400,517	73.10	26.90
1898.....	52	881	35,026	18,599,299	14,208,795	4,390,504	76.39	23.61
1899.....	52	889	36,991	23,434,454	17,427,598	6,006,847	74.37	25.63
1900.....	52	920	39,384	25,153,929	12,927,899	11,226,030	44.63	55.37
1901.....	53	915	44,143	26,635,319	13,321,124	13,314,195	50.01	49.99
1902.....	54	915	46,005	30,021,300	15,041,673	14,979,627	50.10	49.90
1903.....	53	933	49,814	34,955,400	15,874,509	19,080,891	45.41	54.59
1904.....	54	932	54,774	37,077,897	16,888,010	20,189,887	45.55	54.45
1905.....	56	990	59,230	37,183,374	16,819,321	20,364,053	45.23	54.77
1906.....	54	1,018	62,283	38,317,581	16,878,088	21,439,493	44.05	55.95
1907.....	55	933	66,714	47,798,621	20,599,509	27,199,112	43.10	56.90
1908.....	54	922	70,841	49,272,452	21,166,563	28,105,889	42.96	57.04
1909.....	55	886	72,733	49,163,710	21,680,602	27,483,108	44.10	55.90
1910.....	55	881	74,634	48,717,853	20,769,930	27,947,923	42.63	57.37
1911.....	53	845	77,410	50,165,099	19,588,409	30,576,690	39.05	60.95
1912.....	52	879	79,411	57,514,240	21,795,527	35,718,713	37.90	62.10

Table 26 shows the number of men employed at the mines, the total output in tons, and the per cent of gain or loss from year to year for thirty-one years.

TABLE 26—*Total number of men and total tons produced, with percentages of gain or loss, for thirty-one years.*

Year.	Men.	Total output— tons.	Percentage of men.		Percentage of tons.	
			Gain.	Loss.	Gain.	Loss.
1882.....	20,290	11,017,069				
1883.....	23,939	12,132,451	17.98		10.04	
1884.....	25,575	12,208,075	6.83		.70	
1885.....	25,946	11,834,459	1.45			3.06
1886.....	15,846	11,175,241		.32		5.57
1887.....	26,804	12,423,066	3.71		11.17	
1888.....	29,410	14,328,181	9.72		15.34	
1889.....	30,076	14,017,298	2.26			2.17
1890.....	28,574	15,274,727		5.00	8.97	
1891.....	32,951	15,660,698	15.31		3.53	
1892.....	33,632	17,862,276	2.07		14.06	
1893.....	35,390	19,949,564	5.23		11.69	
1894.....	38,477	17,113,576	8.72			14.22
1895.....	38,630	17,735,864	.40		3.64	
1896.....	37,057	19,786,626		4.07	11.56	
1897.....	33,788	20,072,758		8.82	1.45	
1898.....	35,026	18,599,299	3.66			7.34
1899.....	36,991	23,434,445	5.61		26.00	
1900.....	39,384	25,153,929	6.47		7.34	
1901.....	44,143	26,635,319	12.08		5.89	
1902.....	46,005	30,021,300	4.21		12.71	
1903.....	49,814	34,955,400	8.28		16.44	
1904.....	54,774	37,077,897	9.96		6.07	
1905.....	59,230	37,183,374	8.14		.28	
1906.....	62,283	38,317,581	5.15		3.05	
1907.....	66,714	47,798,621	7.11		24.74	
1908.....	70,841	49,272,452	6.19		3.08	
1909.....	72,733	49,163,710	2.67			.22
1910.....	74,634	48,717,853	2.61			.91
1911.....	77,410	50,165,099	3.72		2.97	
1912.....	79,411	57,514,240	2.58		14.65	

Table 27 gives the production of the shipping mines in each county
will be found the output each

TABLE 27—*Total output of shipping mines produced in each calendar*

Counties and districts.	Total tons.	1911—Output for the months of—					
		July.	August.	Sep-tember.	October.	No-vember.	De-cember.
Grundy.....	742,606	56,808	60,627	64,473	81,714	85,463	81,221
LaSalle.....	1,404,599	92,701	102,128	121,423	142,717	148,372	142,596
Livingston.....	29,682	2,366	2,370	2,152	2,927	3,081	3,581
Will.....	174,443	12,514	12,939	12,225	10,071	18,684	19,238
First District.....	2,351,330	164,389	178,064	200,273	237,429	255,600	246,636
Bureau.....	1,664,092	110,086	124,345	146,099	159,404	166,442	170,209
Henry.....	42,995	3,562	3,426	2,899	3,802	4,800	4,714
Mercer.....	318,070	11,496	18,410	26,025	27,647	36,594	43,952
Rock Island.....	13,040	640	700	550	1,400	1,350	1,200
Stark.....	13,326	208	238	420	1,156	1,349	1,140
Second District.....	2,051,523	125,992	147,119	175,993	193,409	210,535	221,215
Marshall.....	441,731	35,254	38,338	39,629	43,407	45,740	44,165
Menard.....	189,235	12,730	14,975	13,560	19,032	17,837	16,481
Peoria.....	1,026,151	66,120	69,707	79,996	96,482	103,936	107,607
Putnam.....	716,531	53,996	60,882	65,946	72,342	72,273	70,235
Tazewell.....	209,802	10,402	13,856	14,031	18,044	20,448	20,971
Woodford.....	183,896	12,339	12,435	13,099	18,106	17,512	18,229
Third District.....	2,767,346	190,841	210,193	226,261	267,413	277,746	277,688
Fulton.....	2,333,758	144,094	172,805	189,284	259,690	243,870	230,162
Fourth District.....	2,333,758	144,094	172,805	189,284	259,690	243,870	230,162
Christian.....	1,340,503	73,481	91,052	95,390	113,249	133,927	151,064
Macon.....	271,626	11,423	20,012	15,244	29,081	30,613	21,944
Moultrie.....	54,162	2,884	3,102	3,700	3,747	4,872	6,955
Shelby.....	114,835	3,383	4,784	7,660	17,034	17,259	16,668
Vermilion.....	3,221,314	244,711	268,052	272,083	297,817	300,378	302,534
Fifth District.....	5,002,440	335,882	387,002	394,077	460,928	487,059	499,165
Logan.....	429,555	21,201	40,650	31,105	41,454	45,569	36,033
McLean.....	96,898	5,039	7,823	8,047	10,587	11,495	11,086
Sangamon.....	5,402,065	321,110	394,538	396,512	498,719	581,211	597,044
Sixth District.....	5,928,518	347,350	443,020	435,664	559,760	638,275	644,163

and district for each month of the fiscal year. At the bottom of table month for the last seven years.

month, by counties and districts, from July 1, 1911, to June 30, 1912.

1912—Output for the months of—						Counties and districts.
January	February.	March.	April.	May.	June.	
88,039	89,939	91,499	.....	23,897	18,926	Grundy.....
154,966	158,485	166,014	7,865	81,689	85,643	LaSalle.....
3,364	3,267	4,226	.....	724	1,624	Livingston.....
21,156	21,156	20,429	444	15,080	10,507	Will.....
267,525	272,847	282,168	8,309	121,390	116,700	First District.....
189,911	195,028	200,369	504	94,818	106,877	Bureau.....
6,525	6,429	6,838	.....	.....	.....	Henry.....
41,173	43,560	45,945	121	320	22,827	Mercer.....
1,580	1,180	1,800	.....	1,240	1,400	Rock Island.....
1,899	1,922	2,218	870	1,056	750	Stark.....
241,088	248,119	257,270	1,495	97,434	131,854	Second District.....
45,683	46,235	50,464	161	24,456	28,199	Marshall.....
28,542	26,320	31,421	1,180	2,911	4,246	Menard.....
115,323	118,286	134,885	7,118	69,565	57,132	Peoria.....
63,272	73,382	74,017	.....	47,879	62,307	Putnam.....
24,605	28,683	30,531	103	12,909	15,219	Tazewell.....
22,097	22,297	23,288	198	13,567	10,729	Woodford.....
299,522	315,197	344,606	8,760	171,287	177,832	Third District.....
279,278	251,390	324,126	.....	108,918	130,141	Fulton.....
279,278	251,390	324,126	.....	108,918	130,141	Fourth District.....
158,932	172,275	218,097	.....	60,454	72,572	Christian.....
47,888	47,571	47,850	.....	.....	.....	Macon.....
6,911	8,547	10,884	.....	.....	2,560	Moultrie.....
17,780	12,362	17,905	.....	.....	.....	Shelby.....
325,130	323,874	361,869	8,513	266,756	249,597	Vermilion.....
556,641	564,629	656,605	8,513	327,210	324,729	Fifth District.....
54,694	57,399	71,761	.....	18,413	11,267	Logan.....
14,692	13,320	12,924	968	455	462	McLean.....
601,698	680,317	832,873	1,213	260,493	236,337	Sangamon.....
671,084	751,036	917,558	2,181	279,361	248,066	Sixth District.....

Table 27—

Counties and districts.	Total tons.	1911—Output for the months of—					
		July.	August.	September.	October.	November.	December.
Macoupin.....	4,890,622	361,665	435,733	414,698	478,786	473,376	501,082
Montgomery.....	2,280,341	158,744	197,298	183,287	245,482	265,110	251,399
Seventh District.....	7,170,962	520,409	633,031	597,985	724,268	738,486	752,481
Bond.....	183,180	11,100	15,831	12,080	14,356	18,135	19,769
Clinton.....	1,012,982	56,451	94,129	90,253	97,708	98,828	108,768
Madison.....	3,400,930	214,974	226,448	227,290	328,015	321,405	325,440
Marion.....	1,203,947	101,476	101,175	91,819	104,460	108,460	114,209
Eighth District.....	5,801,039	283,001	427,583	421,442	545,439	546,828	568,186
St. Clair.....	4,409,341	237,039	313,829	294,254	371,410	440,005	422,408
Ninth District.....	4,409,341	237,039	313,829	294,254	371,410	440,005	422,408
Jackson.....	687,857	54,677	68,279	71,288	62,092	64,143	64,253
Jefferson.....	7,958						997
Perry.....	1,394,940	90,718	131,884	126,630	114,856	128,769	154,027
Randolph.....	744,506	49,422	59,016	62,048	62,356	78,765	69,214
Washington.....	188,083	500	1,000	1,000	1,000	6,508	34,670
Tenth District.....	3,023,344	195,317	260,179	261,046	240,304	278,185	323,161
Franklin.....	4,026,815	311,623	380,724	375,518	428,702	406,665	405,709
Gallatin.....	63,127	3,554	5,318	5,366	7,658	8,138	5,459
Saline.....	4,076,756	251,486	266,639	359,013	339,406	409,821	434,500
White.....	31,774	2,649	3,379	3,412	3,945	3,889	2,449
Eleventh District.....	8,198,472	569,312	656,060	743,309	779,711	828,513	848,117
Williamson.....	7,058,621	474,484	610,568	643,173	661,797	754,815	776,282
Twelfth District.....	7,058,621	474,484	610,568	643,173	661,797	754,815	776,282
The State, 1912.....	56,096,695	3,688,110	4,449,453	4,582,761	4,292,558	5,609,917	5,809,664
The State, 1911.....	48,758,657	4,769,521	2,413,674	3,580,137	5,451,241	5,876,969	5,768,701
The State, 1910.....	47,225,201	3,304,331	3,739,383	4,412,749	5,235,286	5,219,082	5,242,614
The State, 1909.....	47,958,562	2,978,427	3,809,419	4,298,981	5,019,764	4,523,011	4,748,402
The State, 1908.....	47,809,730	3,544,763	4,112,544	4,222,617	5,279,014	5,097,806	4,837,077
The State, 1907.....	46,436,839	2,884,310	3,244,518	3,478,829	4,282,628	4,342,762	4,613,382
The State, 1906.....	37,096,945	1,891,717	2,840,419	3,117,045	3,578,312	3,880,503	4,178,029

Concluded.

1912—Output for the months of—						Counties and districts.
January.	February.	March.	April.	May.	June.	
496,937	510,397	637,917	.....	242,231	337,798	Macoupin.....
226,078	238,752	305,794	.....	92,074	116,323	Montgomery.....
723,015	749,149	943,711	.....	334,395	454,121	Seventh District.....
24,757	28,174	32,449	.....		6,529	Bond.....
112,037	116,496	137,329	.....	50,712	50,271	Clinton.....
414,941	442,392	545,522	.....	138,775	214,828	Madison.....
103,746	110,238	143,721	696	108,206	115,741	Marion.....
655,481	697,300	859,021	696	297,693	387,369	Eighth District.....
517,415	566,054	720,726	5,601	259,661	260,939	St. Clair.....
517,415	566,054	720,726	5,601	259,661	260,939	Ninth District.....
56,042	68,198	88,933	840	43,017	46,095	Jackson.....
1,234	1,513	1,363	269	1,516	1,066	Jefferson.....
126,739	146,279	188,352	2,197	79,585	104,804	Perry.....
67,583	80,479	140,682	887	29,921	43,833	Randolph.....
26,332	35,246	54,279	1,820	21,288	4,360	Washington.....
278,230	331,815	473,609	6,013	175,327	200,158	Tenth District.....
378,172	382,165	513,196	25	175,363	268,953	Franklin.....
6,090	8,550	10,823	.....	1,207	964	Gallatin.....
442,381	544,918	560,668	.....	215,155	252,769	Saline.....
3,054	3,598	4,896	.....	60	443	White.....
829,697	939,231	1,089,583	25	391,785	523,129	Eleventh District.....
685,661	748,517	967,407	.....	325,495	410,422	Williamson.....
685,661	748,517	967,407	.....	325,495	410,422	Twelfth District.....
6,004,637	6,435,284	7,836,392	42,593	2,889,866	3,365,460	The State, 1912.....
5,038,023	3,957,373	4,209,260	3,671,457	3,548,713	3,473,588	The State, 1911.....
5,722,496	5,551,940	7,026,402	23,966	169,662	1,637,199	The State, 1910.....
4,641,015	4,107,510	4,148,613	3,470,361	3,145,748	3,067,311	The State, 1909.....
4,408,282	4,566,526	6,055,194	1,400,640	2,081,853	3,463,414	The State, 1908.....
4,852,163	4,254,985	3,731,138	3,572,474	3,784,770	3,393,880	The State, 1907.....
4,288,706	4,336,350	5,378,459	392,382	659,019	2,556,094	The State, 1906.....

Table 28 is a recapitulation of Table 27 and shows the tonnage by

TABLE 28—*Recapitulation of Table 27—Total output of shipping
1911, to June*

Districts.	Total tons.	July.	August.	September.	October.	November.	December.
First.....	2,351,330	164,389	178,064	200,273	237,429	255,600	246,636
Second.....	2,051,523	125,992	147,119	175,993	193,409	210,535	221,215
Third.....	2,767,346	190,841	210,193	226,261	267,413	277,746	277,688
Fourth.....	2,333,758	144,094	172,805	189,284	259,690	243,870	230,162
Fifth.....	5,002,440	335,882	387,002	394,077	460,928	487,059	499,165
Sixth.....	5,928,518	347,350	443,020	435,664	550,760	638,275	644,163
Seventh.....	7,170,963	520,409	633,031	597,985	724,268	738,486	752,481
Eighth.....	5,801,039	383,001	437,583	421,442	545,439	546,828	568,186
Ninth.....	4,409,341	237,039	313,829	294,254	371,410	440,005	422,408
Tenth.....	3,023,344	195,317	260,179	261,046	240,304	278,185	323,161
Eleventh.....	8,198,472	569,312	656,060	743,309	779,711	828,513	848,117
Twelfth.....	7,058,621	474,484	610,568	643,173	661,797	754,815	776,282
The State, 1912..	56,096,695	3,688,110	4,449,453	4,582,761	4,292,558	5,699,917	5,809,664
The State, 1911..	48,758,657	1,769,521	2,413,674	3,580,137	5,451,241	5,876,969	5,768,701
The State, 1910..	47,225,201	3,304,331	3,739,383	4,412,740	5,235,286	5,219,082	5,242,614
The State, 1909..	47,958,562	2,978,427	3,809,419	4,298,981	5,019,764	4,523,011	4,748,402
The State, 1908..	47,809,730	3,544,763	4,112,544	4,222,617	5,279,014	5,097,806	4,837,077
The State, 1907..	46,436,839	2,884,310	3,244,518	3,478,829	4,282,628	4,343,762	4,613,382
The State, 1906..	37,096,945	1,891,717	2,840,419	3,117,045	3,578,312	3,880,503	4,178,029

districts each month of the year and for the six previous years.

mines produced in each calendar month, by districts, from July 1, 30, 1912.

January.	February.	March.	April.	May.	June.	Districts.
267,525	272,847	282,168	8,309	121,390	116,700	First.....
241,088	248,119	257,270	1,495	97,434	131,854	Second.....
299,522	315,197	344,606	8,760	171,287	177,832	Third.....
279,278	251,390	324,126	.....	108,918	130,141	Fourth.....
556,641	564,629	656,605	8,513	327,210	324,729	Fifth.....
671,084	751,036	917,558	2,181	279,361	248,066	Sixth.....
723,015	749,149	943,713	.....	334,305	454,121	Seventh.....
655,481	697,300	859,021	696	297,693	387,369	Eighth.....
517,415	566,054	720,726	5,601	259,661	260,939	Ninth.....
278,230	331,815	473,609	6,013	175,327	200,158	Tenth.....
829,697	939,231	1,089,583	25	391,785	523,129	Eleventh.....
685,661	748,517	967,407	.....	325,495	410,422	Twelfth.....
6,004,637	6,435,284	7,836,392	42,593	2,889,866	3,365,460	The State, 1912.....
5,038,023	3,957,373	4,209,260	3,671,457	3,548,713	3,473,588	The State, 1911.....
5,722,496	5,551,940	7,026,402	23,966	109,662	1,637,199	The State, 1910.....
4,641,015	4,107,510	4,148,613	3,470,361	3,145,748	3,067,311	The State, 1909.....
4,408,282	4,566,526	6,055,194	1,400,640	2,081,853	3,463,414	The State, 1908.....
4,852,163	4,254,985	3,731,138	3,572,474	3,784,770	3,303,880	The State, 1907.....
4,288,706	4,336,350	5,378,459	392,382	659,019	2,556,094	The State, 1906.....

Table 29 gives the percentages of the output produced each month by districts and for the six prior years.

TABLE 29—*Percentages of the total output mined in each month by districts.*

Districts.	Percentages of total output mined in each district during the months of—											
	1911.						1912.					
	July.	August.	September.	October.	November.	December.	January.	February.	March.	April.	May.	June.
First.....	6.97	7.57	8.51	10.52	10.87	11.49	11.37	11.14	11.11	0.35	5.16	4.94
Second.....	6.14	7.17	8.58	9.43	10.26	11.78	11.26	12.09	12.04	0.07	4.75	6.45
Third.....	6.90	7.60	8.18	9.74	10.03	10.04	10.82	11.39	12.45	0.32	6.19	6.34
Fourth.....	6.17	7.40	8.11	11.13	10.45	9.86	11.97	19.77	13.89	.....	4.67	5.58
Fifth.....	6.71	7.74	7.89	9.21	9.74	9.98	11.12	11.29	13.12	0.17	6.54	6.49
Sixth.....	9.75	10.86	12.32	12.67	5.86	7.48	7.35	9.29	15.48	0.03	4.72	4.19
Seventh.....	7.26	8.83	8.34	10.11	10.30	10.49	10.09	10.45	13.17	.....	4.62	6.34
Eighth.....	6.60	7.55	7.27	9.41	9.43	9.79	11.30	12.00	14.81	0.01	5.14	6.69
Ninth.....	9.98	9.58	11.73	12.84	5.38	7.12	6.67	8.42	16.35	0.12	5.89	5.92
Tenth.....	6.46	8.60	8.63	7.95	9.20	10.69	9.20	10.98	15.67	0.20	5.80	6.62
Eleventh.....	6.95	8.00	9.07	9.51	10.11	10.33	10.11	11.46	13.29	.....	4.78	6.39
Twelfth.....	6.72	8.65	9.11	9.38	10.61	11.00	9.71	10.60	13.70	.....	4.71	5.81
The State, 1912.....	6.58	7.93	8.12	7.65	10.17	10.36	10.71	13.28	13.97	0.08	5.15	6.00
The State, 1911.....	3.63	4.95	7.14	11.18	12.05	11.83	10.33	8.12	8.82	7.53	7.34	7.08
The State, 1910.....	7.00	7.92	9.34	11.08	11.05	11.10	12.12	11.76	14.88	0.05	9.23	3.47
The State, 1909.....	6.21	7.94	8.96	10.47	9.43	9.90	9.68	8.56	8.65	7.24	6.56	6.40
The State, 1908.....	7.41	8.60	8.83	11.04	10.67	10.12	9.22	9.55	12.07	0.29	4.38	7.22
The State, 1907.....	6.21	6.99	7.49	9.22	9.35	9.44	10.45	9.16	8.04	7.69	8.15	7.31
The State, 1906.....	5.10	7.66	8.40	9.64	10.46	11.26	11.56	11.69	14.15	1.06	1.78	6.89

Table 30 shows the total output and the number of tons mined in each half of the year, with the percentage of each period, by districts. The same showing is made for the years 1911 to 1906, inclusive.

TABLE 30—*Tons and percentages of output of shipping mines for the first and second six months of the fiscal year 1912.*

Districts.	Total output —tons.	Output six months July 1 to Dec. 31, 1911.		Output six months Jan. 1 to June 30, 1912.	
		Tons.	Per cent.	Tons.	Per cent.
First.....	2,351,330	1,282,391	54.54	1,068,939	45.46
Second.....	2,051,523	1,074,263	52.36	977,260	47.64
Third.....	2,767,346	1,450,142	52.40	1,317,204	47.60
Fourth.....	2,333,758	1,239,905	51.12	1,093,853	48.88
Fifth.....	5,002,440	2,564,113	51.26	2,438,327	48.74
Sixth.....	5,928,518	3,059,232	51.60	2,869,286	48.40
Seventh.....	7,170,963	3,966,660	55.32	3,204,303	44.68
Eighth.....	5,801,039	2,902,479	50.03	2,898,560	49.97
Ninth.....	4,409,341	2,078,945	47.15	2,330,396	52.85
Tenth.....	3,023,344	1,558,192	51.54	1,465,152	48.46
Eleventh.....	8,198,472	4,425,022	53.97	3,773,450	46.03
Twelfth.....	7,058,621	3,921,119	55.55	3,137,502	44.45
The State, 1912.....	56,096,695	29,522,463	52.63	26,574,232	47.37
The State, 1911.....	48,758,657	24,860,243	50.98	23,898,414	49.02
The State, 1910.....	47,225,205	27,153,536	57.50	20,071,665	42.50
The State, 1909.....	47,958,562	25,377,999	52.92	22,580,563	47.08
The State, 1908.....	47,809,730	27,093,821	56.67	20,715,909	43.33
The State, 1907.....	46,436,839	22,847,429	49.20	23,589,410	50.80
The State, 1906.....	37,096,945	19,486,025	52.53	17,610,920	47.47

HAULAGE.

Table 31 discloses the manner of hauling coal in the shipping mines of the State.

For comparison, the five prior years are shown, and it will be seen that motor haulage has steadily increased in the number of mines using, the number of motors used and the tonnage hauled.

TABLE 31—*Haulage of coal in shipping mines of the State by districts.*

Districts.	Number of mines.	Motors.			Cable.		Mule.		Hand.	
		No.	Kind.	Tons.	Number of mines.	Tons.	Number of mines.	Tons.	Number of mines.	Tons.
First.....	1	2	Electric..	205,737	...	.....	22	2,115,911	1	29,682
Second.....	1	3	..do.....	148,475	...	.....	12	1,903,048	...	.....
Third.....	10	21	..do.....	1,163,595	...	.....	22	1,603,751	...	.....
Fourth.....	7	14	*Electric.	1,349,276	...	.....	13	984,482	...	.....
Fifth.....	15	33	Electric..	3,824,123	...	.....	19	1,178,317	...	.....
Sixth.....	16	33	*Electric.	4,109,717	3	168,153	17	1,750,648	...	.....
Seventh.....	16	43	..do.....	6,031,518	...	.....	7	1,139,445	...	.....
Eighth.....	21	51	Electric..	5,169,219	...	.....	8	631,820	...	.....
Ninth.....	17	24	*Electric.	1,748,873	...	.....	41	2,660,468	...	.....
Tenth.....	15	35	Electric..	1,868,856	2	232,817	23	921,671	...	.....
Eleventh.....	25	76	.....	6,752,617	...	.....	13	1,445,855	...	.....
Twelfth.....	21	46	*Electric.	5,586,044	...	.....	13	1,472,577	...	.....
The State, 1912..	165	381	.....	37,958,050	4	400,970	210	17,707,993	1	29,682
The State, 1911..	137	303	.....	29,310,173	24	2,321,016	219	16,839,883	7	287,585
The State, 1910..	106	229	.....	23,204,480	25	2,508,343	251	21,243,637	8	268,741
The State, 1909..	96	210	.....	21,892,462	16	1,396,154	268	24,645,398	4	24,548
The State, 1908..	88	185	.....	19,024,665	32	3,273,753	283	25,482,634	4	28,678
The State, 1907..	75	129	.....	16,542,575	25	2,864,241	303	26,689,533	5	46,865

* Thirteen Gasoline.

Table 32 gives in detail the mines in which motors are used for underground haulage, arranged by districts, and show the location, name and number of motors in use and the tons hauled.

TABLE 32—*Shipping mines using motor haulage, with name and number of motors in use, kind in use and tons hauled—1912.*

Number.	Districts and operator.	Location.	Motors.		Tonnage.
			Name.	Kind.	
	The State—165 mines.....		381 motors.....		37,958,050
	First District—1 mine.....				
1	Oglesby Coal Co.....	Oglesby.....	2 Goodman.....	Electric..	205,737
	Second District—1 mine.....				
1	Marquette 3d Vein Coal Co.....	Marquette.....	3 Goodman.....	Electric..	148,475
	Third District—10 mines.....		21 motors.....		1,163,595
1	Toluca Coal Co.....	Toluca.....	2 Westinghouse; 3 Goodman.....	Electric..	257,472
2	Clark C. & C. Co., No. 2.....	Peoria.....	5 Goodman.....	..do.....	253,414
3	Crescent Coal Co.....	..do.....	1 Goodman, 1 General Electric.....	..do.....	180,325
4	Deming and Cruickshank, No. 3.....	..do.....	1 Goodman; 1 Morgan-Gardner.....	..do.....	109,648
5	Newsam Bros.....	Kingston Mines	1 Goodman.....	..do.....	108,233
6	Wolschlah Coöperative Coal Co.....	Peoria.....	1 Goodman; 1 Jeffrey.....	..do.....	87,841
7	Applegate and Lewis.....	Hanna City.....	1 Goodman.....	..do.....	51,503
8	Brewster and Evans Co.....	Peoria.....	1 General Electric.....	..do.....	49,946
9	Olympia Coal Co.....	Edwardsville.....	1 Jeffrey.....	..do.....	42,900
10	Warsaw Coal Co.....	Edwards.....	1 General Electric.....	..do.....	22,312
	Fourth District—7 mines.....		14 motors.....		1,349,276
1	Maplewood Col. Co., No. 2.....	Farmington.....	1 Westinghouse; 1 Jeffrey.....	Electric..	303,500
2	Big Creek Coal Co., No. 2.....	St. David.....	2 Jeffrey; 1 Goodman.....	..do.....	271,729
3	Monmouth Coal Co., No. 1.....	Brereton.....	2 Goodman.....	..do.....	206,430
4	Big Creek Coal Co., No. 4.....	Dunfermline.....	2 Jeffrey; 1 Morgan-Gardner.....	..do.....	190,460
5	Canton Coal Co.....	Canton.....	2 Morgan-Gardner.....	..do.....	158,817
6	Eagle Mining Co.....	..do.....	1 Milwaukee.....	Gasoline..	132,360
7	Maplewood Col. Co., No. 1.....	Farmington.....	1 Westinghouse.....	Electric..	85,980

Table 32—Continued.

Number.	Districts and operator.	Location.	Motors.		Tonnage.
			Name.	Kind.	
	Fifth District—15 mines.....		33 motors.....		3,824,123
1	Christian Co. Coal Co.....	Taylorville.....	2 Goodman.....	Electric..	302,278
2	Springfield Coal Co., No. 6.....	do.....	2 Goodman.....	do.....	235,220
3	Penwell Coal Mining Co.....	Pana.....	3 Goodman.....	do.....	190,104
4	Pana Coal Co., No. 1.....	do.....	2 Goodman.....	do.....	185,588
5	Stonington Coal Co.....	Stonington.....	1 Goodman.....	do.....	175,516
6	Smith-Lohr C. M. Co.....	Pana.....	2 Jeffrey.....	do.....	134,885
7	Assumption C. Co.....	Assumption.....	1 Goodman.....	do.....	75,285
8	Pana Coal Co., No. 8.....	Pana.....	2 Goodman.....	do.....	41,647
9	Moweaqua C. M. & Mfg. Co., No. 1.....	Moweaqua.....	1 Goodman.....	do.....	53,426
10	Bunsen Coal Co., Verm.....	Westville.....	3 Jeffrey.....	do.....	640,664
11	Bunsen Coal Co., No. 4.....	do.....	2 Goodman; 2 General Electric.....	do.....	561,169
12	Dering Coal Co., No. 2.....	do.....	2 Morgan-Gardner; 1 Westinghouse.....	do.....	326,947
13	Bunsen Coal Co., No. 2.....	do.....	2 Goodman.....	do.....	302,724
14	Deering Coal Co., No. 3.....	Steelton.....	1 Morgan-Gardner; 2 Westinghouse.....	do.....	301,193
15	Bunsen Coal Co., No. 3.....	Westville.....	2 Jeffrey.....	do.....	297,587
	Sixth District—16 mines.....		33 motors.....		4,199,717
1	Latham Coal Co., North.....	Lincoln.....	2 Goodman.....	Electric..	227,586
2	Chi., Wilm. & V. C. Co., No. 1.....	Thayer.....	2 Morgan-Gardner; 2 Goodman.....	do.....	486,140
3	Jones and Adams C. Co.....	Springfield.....	3 Jeffrey.....	do.....	472,380
4	Springfield C. M. Co., No. 2.....	Riverton.....	2 Goodman.....	do.....	388,937
5	Ill. Midland Coal Co., No. 5.....	Pawnee.....	2 General Electric.....	do.....	382,588
6	Madison Coal Corp., No. 6.....	Divernon.....	2 Goodman.....	do.....	354,650
7	Black Diamond C. Co.....	Auburn.....	2 Jeffrey; 2 Goodman.....	do.....	311,600
8	Woodside Coal Co.....	Springfield.....	2 Jeffrey.....	do.....	296,354
9	Ill. Midland C. Co., No. 6.....	Sherman.....	1 Whitcomb.....	Gasoline..	265,683
10	Capital Coal Co., No. 2.....	Springfield.....	2 Goodman.....	Electric..	222,792
11	Springfield C. M. Co., No. 5.....	do.....	2 Whitcomb.....	Gasoline..	191,634
12	West End Coal Co.....	do.....	1 Goodman; 1 Jeffrey.....	Electric..	119,261
13	Cantrall Coöper. Coal Co.....	Cantrall.....	1 Jeffrey.....	do.....	117,291
14	Spring. Coöper. C. Co. New N.....	Springfield.....	1 Jeffrey.....	do.....	115,300
15	Barclay C. & Mining Co.....	Barclay.....	2 Goodman.....	do.....	81,658
16	Dickerson Coal Co., Empire.....	Springfield.....	1 Goodman.....	do.....	74,863

Table 32—Continued.

Number.	Districts and operator.	Location.	Motors.		Tonnage.
			Name.	Kind.	
	Seventh District—16 mines.....		43 motors.....		6,031,518
1	Superior Coal Co., No. 3.....	Gillespie.....	3 Jeffrey; 1 Goodman	Electric..	821,678
2	Superior Coal Co., No. 2.....	..do.....	2 Jeffrey; 1 Goodman .....	..do.....	777,263
3	Superior Coal Co., No. 1.....	..do.....	5 Jeffrey.....	..do.....	654,264
4	Consolidated Coal Co., No. 14.....	Staunton	2 General Electric.....	..do.....	494,314
5	Consolidated Coal Co., No. 15.....	Mt. Olive.....	2 General Electric.....	..do.....	418,048
6	Royal Col. Co., No. 1.....	Viriden.....	3 Westinghouse.....	..do.....	331,584
7	Girard Col. Co., No. 5.....	Girard.....	2 Goodman.....	..do.....	251,599
8	Madison Coal Corp., No. 5.....	Mt. Olive.....	2 Goodman.....	..do.....	224,790
9	Vivian Col. Co., G. R.....	Greenridge.....	2 Morgan-Gardner .....	..do.....	229,672
10	Greenridge Coal Co., No. 1.....	Viriden.....	2 General Electric.....	..do.....	192,946
11	Consolidated Coal Co. No. 8.....	Mt. Olive.....	1 General Electric.....	..do.....	113,310
12	Shoal Creek Coal Co., No. 1.....	Panama.....	4 Goodman.....	..do.....	407,025
13	Peabody Coal Co., No. 14.....	Witt.....	2 Jeffrey.....	..do.....	366,937
14	Montgomery Co. Coal Co.....	Hillsboro.....	7 Jeffrey.....	..do.....	329,222
15	Hillsboro Coal Co.....	..do.....	1 Goodman.....	..do.....	293,619
16	Cloverleaf Mining Co., No. 2.....	Coffeen.....	1 Goodman.....	..do.....	134,247
	Eighth District—20 mines.....		51 motors.....		5,169,219
1	Southern C. & M. Co., No. 9.....	New Baden.....	6 Goodman.....	Electric..	352,301
2	Breese-Trenton Mining Co.....	Breese.....	4 Jeffrey.....	..do.....	230,060
3	Breese-Trenton Mining Co.....	Beckemeyer	1 Jeffrey.....	..do.....	171,752
4	North Breese-Trenton C. M. Co.	Breese.....	2 Goodman.....	..do.....	163,726
5	Consolidated Coal Co.....	..do.....	2 General Electric.....	..do.....	95,143
6	New Staunton Coal Co., No. 1.....	Livingston.....	3 Goodman.....	..do.....	737,632
7	Mt. Olive and Stau. C. Co., No. 2	Staunton	2 Goodman.....	..do.....	506,944
8	Donk Bros. C. & C. Co., No. 2.....	Maryville.....	3 Goodman.....	..do.....	380,904
9	Mt. Olive & Staup. C. Co., No. 1.	Staunton.....	2 Goodman.....	..do.....	311,682
10	Lumaghi Coal Co., No. 2.....	Collinsville.....	2 Goodman.....	..do.....	238,140
11	Donk Bros. C. & C. Co., No. 1.....	..do.....	3 Goodman.....	..do.....	225,857
12	Donk Bros. C. & C. Co., No. 3.....	Troy.....	2 Goodman.....	..do.....	209,076
13	Madison Coal Corporation, No. 2.....	Glen Carbon	2 Goodman.....	..do.....	199,204
14	Madison Coal Corporation, No. 4.....	..do.....	2 Goodman.....	..do.....	178,713
15	Kerns-Donnewald Coal Co.....	Worden.....	1 Westinghouse.....	..do.....	122,584
16	DeCamp Coal Mining Co., No. 1.....	Staunton.....	1 Goodman.....	..do.....	87,349
17	Marion Co. Coal Co.....	Centralia	3 Goodman.....	..do.....	357,648
18	Centralia Coal Co., No. 2.....	..do.....	3 Jeffrey, 1 Goodman.....	..do.....	245,901
19	Centralia Coal Co., No. 4.....	..do.....	4 Goodman.....	..do.....	188,365
20	Odin Coal Co.....	Odin.....	2 Goodman; 1 Jeffrey.....	..do.....	167,138

Table 32—Continued.

Number.	Districts and operator.	Location.	Motors.		Tonnage.
			Name.	Kind.	
	Ninth District—17 mines.....		24 motors.....		1,748,873
1	St. L. and O'Fallon C. Co., No. 2	E. St. Louis	5 Goodman.....	Electric..	564,708
2	Joseph Taylor.....	O'Fallon	1 Jeffrey.....	do.....	180,593
3	Superior C. M. Co.....	Belleville	1 Whitecomb.....	Gasoline.	158,622
4	St. Louis and O'Fallon, No. 1	E. St. Louis	3 Goodman.....	Electric..	128,706
5	Kolb Coal Co.....	Mascoutah	1 Whitecomb.....	Gasoline.	117,790
6	Breese-Trenton Mining Co.....	Trenton	1 Whitecomb.....	do.....	105,465
7	Joseph Taylor.....	O'Fallon	1 Whitecomb.....	do.....	98,046
8	Joseph Taylor.....	do.....	1 Jeffrey.....	Electric..	81,952
9	Border Coal Co.....	Marissa	1 Whitecomb.....	Gasoline.	64,218
10	Mo. and Ill. Coal Co.....	Rentchler	1 Goodman.....	Electric..	51,603
11	International Coal Co.....	O'Fallon	1 Jeffrey.....	do.....	40,780
12	Egyptian Coal M. Co.....	Marissa	2 Goodman.....	do.....	36,407
13	Glendale C. & M. Co.....	Belleville	1 Goodman.....	do.....	29,660
14	L. Senior.....	do.....	1 Ellison.....	Gasoline.	25,910
15	Gouch C. & M. Co.....	Rentchler	1 Jeffrey.....	Electric..	23,740
16	Tirre C. & M. Co.....	Lenzburg	1 Goodman.....	do.....	22,414
17	Vulcan C. & M. Co.....	Belleville	1 General Electric.....	do.....	18,259
	Tenth District—15 mines.....		35 motors.....		1,868,856
1	Big M. C. & I. Co. No. 9.....	Murphysboro...	1 General Electric; 1 West- inghouse.....	Electric..	216,445
2	Big M. C. & I. Co., Harrison	do.....	3 Goodman.....	do.....	114,271
3	Willis C. & M. Co.....	DuQuoin.....	4 Goodman.....	do.....	222,541
4	Majestic Coal Co.....	do.....	1 Goodman.....	do.....	176,038
5	Paradise Coal Co.....	do.....	3 Goodman.....	do.....	173,789
6	Security C. M. Co. No. 1.....	do.....	2 Goodman.....	do.....	130,575
7	Mo. and Ill. Coal Co. No. 4.....	Willisville.....	1 Goodman.....	do.....	128,712
8	Brilliant C. M. Co.....	DuQuoin.....	1 Goodman.....	do.....	61,780
9	St. Louis and Coulterville C. Co.	Coulterville...	1 General Electric.....	do.....	37,192
10	Bessmer C. & M. Co.....	Pinkneyville...	1 Goodman.....	do.....	18,002
11	Willis C. M. Co. No. 6.....	Percy.....	2 Goodman.....	do.....	188,779
12	Wilson Bros. C. Co. No. 7.....	Sparta.....	1 Goodman.....	do.....	112,312
13	Ill. Fuel Co. No. 4.....	do.....	1 Goodman.....	do.....	97,508
14	Boyd C. & C. Co. No. 1.....	do.....	5 Ellison.....	do.....	37,951
15	Centralia Coal Co. No. 5.....	Centralia.....	7 Goodman.....	do.....	152,961

Table 32—Continued.

Number.	Districts and operator.	Location.	Motors.		Tonnage.
			Name.	Kind.	
	Eleventh District—25 mines.....		76 motors.....		6,752,617
1	United C. M. Co., No. 1.....	Christopher....	6 Goodman; 2 Jeffrey....	Electric..	524,163
2	Zeigler Dist. Col. Co.....	do.....	2 Morgan-Gardner; 1 Jeffrey; 1 General Electric..	do.....	475,386
3	Sesser Coal Co.....	Sesser.....	2 Westinghouse; 2 General Electric.....	do.....	424,449
4	Bell-Zollar M. Co. No., 1.....	Zeigler.....	2 Jeffrey; 1 Goodman; 10 Westinghouse.....	do.....	423,687
5	Benton Coal Co., No. 1.....	Benton.....	3 Morgan-Gardner.....	do.....	382,465
6	Hart-Williams Coal Co., No. 1..	do.....	3 Morgan-Gardner.....	do.....	332,350
7	W. P. Rend Col. Co., No. 1....	Rend.....	2 Morgan-Gardner.....	do.....	267,441
8	Dering Coal Co., No. 11.....	W. Frankfort...	2 Morgan-Gardner; 1 Goodman.....	do.....	221,906
9	Franklin Co. Coal Co.....	Royalton.....	3 Goodman.....	do.....	212,112
10	Ohio Valley Coal Co. No., 8....	W. Frankfort...	6 Jeffrey.....	do.....	197,773
11	United C. M. Co., No. 2.....	Christopher....	2 Goodman.....	do.....	69,985
12	O'Gara Coal Co., No. 9.....	Harrisburg.....	2 Morgan-Gardner.....	do.....	523,583
13	O'Gara Coal Co., No. 3.....	do.....	2 Morgan-Gardner.....	do.....	383,685
14	O'Gara Coal Co., No. 1.....	do.....	2 Morgan-Gardner.....	do.....	286,318
15	O'Gara Coal Co., No. 10.....	do.....	2 Morgan-Gardner.....	do.....	265,915
16	Harrisburg South. C. Co. No. 1..	Elkhart.....	2 Morgan-Gardner.....	do.....	265,136
17	Wasson Coal Co., No. 1.....	Harrisburg....	2 Morgan-Gardner.....	do.....	259,421
18	O'Gara Coal Co., No. 4.....	do.....	2 Morgan-Gardner.....	do.....	244,900
19	O'Gara Coal Co., No. 14.....	do.....	2 Morgan-Gardner.....	do.....	238,076
20	Saline Co. Coal Co., No. 3.....	do.....	2 Morgan-Gardner.....	do.....	235,326
21	O'Gara Coal Co., No. 15.....	do.....	2 Morgan-Gardner.....	do.....	193,151
22	O'Gara Coal Co., No. 11.....	do.....	1 Morgan-Gardner.....	do.....	134,619
23	O'Gara Coal Co., No. 7.....	do.....	1 Morgan-Gardner.....	do.....	91,008
24	O'Gara Coal Co., No. 8.....	do.....	1 Morgan-Gardner.....	do.....	68,228
25	O'Gara Coal Co., No. 12.....	do.....	1 Morgan-Gardner.....	do.....	31,504

Table 32—Concluded.

Number.	Districts and operator.	Location.	Motors.		Tonnage.
			Name.	Kind.	
	Twelfth District—21 mines.....		46 motors.....		5,586,044
1	Big M. C. & I. Co., No. 8.....	Clifford.....	1 Jeffrey; 2 General Electric.....	Electric..	570,695
2	Johnston City Coal Co., No. 1....	Johnston City..	3 Morgan-Gardner.....	..do.....	540,236
3	Madison Coal Corp., No. 9.....	Dewmaine.....	2 Goodman.....	..do.....	423,556
4	Chi. and Cart. C. Co., A.....	Herrin.....	3 Goodman.....	..do.....	407,420
5	Sunnyside Coal Co., No. 1.....	..do.....	1 Jeffrey; 3 Goodman.....	..do.....	312,383
6	Western C. M. Co., Bush.....	Bush.....	4 General Electric.....	..do.....	332,693
7	Big M. C. & I. Co., No. 7.....	Herrin.....	2 Jeffrey, 2 General Electric.....	..do.....	313,509
8	W. P. Bend C. & C. Co., No. 2....	..do.....	2 Morgan-Gardner.....	..do.....	290,938
9	Madison Coal Corp., No. 8.....	Dewmaine.....	2 Westinghouse.....	..do.....	288,968
10	Peabody Coal Co., No. 2.....	Marion.....	2 Goodman.....	..do.....	228,365
11	Taylor Coal Co., No. 2.....	Herrin.....	1 Whitecomb.....	Gasoline..	227,819
12	Peabody Coal Co., No. 3.....	Marion.....	2 Goodman; 1 Morgan-Gardner.....	Electric..	222,701
13	Chi. Big M. Coal Co.....	..do.....	2 Goodman; 1 Jeffrey.....	..do.....	204,392
14	Chi. & Cart. Coal Co., B.....	Herrin.....	2 Westinghouse.....	..do.....	197,534
15	West. Va. Coal Co., No. 1.....	Marion.....	1 Jeffrey.....	..do.....	192,357
16	South. Ill. C. & C. Co., O. R.....	Herrin.....	1 Whitecomb.....	Gasoline..	188,873
17	Big Muddy Fuel Co.....	Johnston City..	1 Goodman.....	Electric..	179,381
18	Carterville Dist. Coal Co. No. 1..	Marion.....	1 Whitecomb.....	Gasoline..	174,390
19	St. Louis & Carterville, Dale....	Herrin.....	1 Jeffrey; 1 Goodman.....	Electric..	114,866
20	Wasson Coal Co.....	..do.....	1 Whitecomb.....	Gasoline..	106,605
21	Pittsburg Big M. Co., No. 2.....	Pittsburg.....	1 Goodman.....	Electric..	38,363

Table 33. The names and number of motors in use, by districts, together with the record for the five preceding years, are given in this table.

TABLE 33—*Name and number of motors in use, by districts—1912.*

Districts.	Ellisons.	General Electric.	Goodman.	Jeffrey.	Morgan-Gardner.	Porter, H. K.	Wagner.	Westinghouse.	Brock & Brinkman.	McClelland.	Morgan 3d rail.	Whitecomb.	Milwaukee.	Total.
First.....			2	2										2
Second.....			3											3
Third.....		3	13	2	1			2						21
Fourth.....			3	5	3			2						14
Fifth.....		2	18	7	3			3					1	33
Sixth.....		2	16	10	2							3		33
Seventh.....		7	12	19	2			3						43
Eighth.....		2	39	9				1						51
Ninth.....	1	1	13	4								5		24
Tenth.....	5	2	27					1						35
Eleventh.....		3	11	12	38			12						76
Twelfth.....		4	17	7	10			4				4		46
The State, 1912.	6	26	174	75	59			28				12	1	381
The State, 1911.	2	34	140	55	38		1	31				2		303
The State, 1910.	3	14	114	46	30	4	1	17						229
The State, 1909.	1	14	102	40	26	4		20		2		1		210
The State, 1908.	3	13	91	32	20	4		18	2		2			185
The State, 1907.		3	69	27	9	1		17			3			129

RELATIVE RANK

Table 34 gives the name and rank of the counties which have produced Williamson County heads the list this year, while St. Clair County, which

TABLE 34—*Relative rank of counties producing 500,000*

Counties.	1912.		1911.		1910.		1909.		1908.	
	Rank.	Tonnage.	Rank.	Tonnage.	Rank.	Tonnage.	Rank.	Tonnage.	Rank.	Tonnage.
Williamson	1	7,086,554	2	5,212,749	1	5,908,544	1	5,901,815	1	5,367,140
Sangamon	2	5,488,419	3	4,716,406	2	5,183,322	2	5,334,148	2	5,082,626
Macoupin	3	4,913,050	4	4,279,383	4	4,040,425	3	4,361,390	4	4,224,865
St. Clair	4	4,516,548	1	5,274,006	3	4,184,555	4	3,409,362	3	4,413,639
Saline	5	4,088,575	7	3,232,736	6	3,062,098	6	2,798,527	7	2,482,677
Franklin	6	4,026,815	8	2,356,439	7	2,071,143	7	2,442,978	10	1,678,195
Madison	7	3,454,536	5	3,766,002	5	3,719,155	5	3,287,418	5	3,584,106
Vermilion	8	3,374,443	6	3,270,380	8	2,033,467	8	2,221,634	6	2,659,762
Fulton	9	2,437,173	10	1,865,222	9	1,979,138	9	2,205,322	8	2,141,489
Montgomery	10	2,280,341	9	2,189,078	10	1,814,203	13	1,480,635	14	1,382,368
Bureau	11	1,681,103	13	1,234,121	13	1,352,994	11	1,654,902	9	1,688,528
LaSalle	12	1,605,482	12	1,354,784	11	1,471,944	10	1,666,220	11	1,626,931
Perry	13	1,406,317	11	1,451,080	12	1,390,436	12	1,536,903	12	1,610,411
Christian	14	1,346,191	14	1,206,467	14	1,317,487	14	1,380,515	13	1,426,123
Peoria	15	1,207,723	18	964,698	18	924,873	18	821,329	17	1,054,673
Marion	16	1,203,947	15	1,134,377	15	1,065,268	16	1,096,847	18	954,925
Clinton	17	1,012,982	17	1,000,536	16	1,000,935	17	1,051,108	16	1,152,670
Randolph	18	762,816	16	1,005,447	19	1,846,969	19	757,622	19	777,327
Grundy	19	756,388	20	601,393	17	927,152	15	1,177,073	15	1,174,482
Jackson	20	724,374	19	648,551	20	665,385	20	650,033	20	637,090
Putnam	21	716,531	21	585,135	.....	.....	21	561,804	.....	.....
Menard .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Marshall .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mercer .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total, counties and tons	21	54,090,308	21	47,348,990	20	44,926,493	21	45,797,585	20	45,120,027

OF COUNTIES.

500,000 tons or more of coal for one or more of the years since 1903. was in the first place last year, drops to fourth.

tons of coal or over for a series of ten years—1903-1912.

1907.		1906.		1905.		1904.		1903.		Counties.
Rank.	Tonnage.	Rank.	Tonnage.	Rank.	Tonnage.	Rank.	Tonnage.	Rank.	Tonnage.	
1	5,266,452	3	3,927,189	2	3,815,751	4	3,038,466	4	2,711,767	Williamson
2	4,876,621	2	4,155,431	1	4,395,050	1	4,516,385	1	4,386,526	Sangamon
4	4,227,267	4	3,241,087	6	2,530,840	6	2,221,474	6	2,223,055	Macoupin
3	4,435,070	1	4,168,019	3	3,398,032	2	3,418,479	2	3,134,679	St. Clair
10	1,711,825	18	601,979	.....	.....	.....	.....	.....	.....	Saline
18	863,165	.....	.....	.....	.....	.....	.....	.....	.....	Franklin
5	3,573,163	5	3,031,553	4	2,987,906	5	3,030,892	5	2,551,587	Madison
6	3,019,934	6	2,012,805	5	2,618,375	3	3,114,060	3	2,893,233	Vermilion
7	1,993,401	8	1,593,793	9	1,439,489	10	1,284,279	10	1,036,496	Fulton
15	1,078,336	17	649,839	.....	.....	.....	.....	.....	.....	Montgomery
8	1,891,900	9	1,547,456	7	1,751,875	7	1,832,577	8	1,778,302	Bureau
11	1,644,686	7	1,595,327	8	1,696,853	8	1,773,189	7	1,877,555	LaSalle
9	1,743,922	10	1,443,926	11	1,268,718	11	1,240,174	11	1,031,751	Perry
13	1,235,566	13	826,500	15	857,890	13	986,685	14	926,563	Christian
17	1,027,023	12	844,484	13	904,892	14	939,737	15	920,716	Peoria
14	1,084,783	14	826,280	12	1,086,350	12	1,083,734	12	1,002,047	Marion
16	1,061,410	15	770,689	14	904,826	15	925,515	16	870,518	Clinton
19	742,894	19	581,841	19	506,547	17	620,280	.....	.....	Randolph
12	1,327,197	11	1,170,625	10	1,326,109	9	1,405,158	9	1,457,935	Grundy
20	705,363	16	759,962	16	802,101	16	862,641	13	972,284	Jackson
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Putnam
.....	.....	20	536,273	.....	.....	19	543,763	.....	.....	Menard
.....	.....	.....	.....	18	510,968	.....	.....	.....	.....	Marshall
.....	.....	.....	.....	17	544,220	18	601,508	17	648,070	Mercer
20	43,509,978	20	34,285,088	19	33,346,792	19	33,438,969	17	30,423,084	Total, counties and tons

Table 35 is a list of coal-producing counties of the State, showing the number of the inspection district, the number of mines, men employed and tons produced in each.

TABLE 35—*Coal-producing counties of the State, showing number of district, mines, men and tons, all mines, shipping mines, local mines—1912.*

Number.	County.	District.	All mines.			Shipping mines.			Local mines.		
			Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
1	Bond.....	8	2	316	183,180	2	316	183,180	-----	-----	-----
2	Bureau.....	2	13	3,945	1,681,103	7	3,901	1,664,092	6	44	17,011
3	Calhoun.....	7	1	10	1,660	-----	-----	-----	1	10	1,660
4	Christian.....	5	9	2,071	1,346,191	8	2,058	1,340,503	1	13	5,688
5	Clinton.....	8	5	1,315	1,012,982	5	1,315	1,012,982	-----	-----	-----
6	Franklin.....	11	16	4,472	4,026,815	16	4,472	4,026,815	-----	-----	-----
7	Fulton.....	4	133	3,908	2,437,173	20	3,540	2,333,758	113	368	103,415
8	Gallatin.....	11	10	163	73,620	3	135	63,127	7	28	10,493
9	Greene.....	7	1	11	5,400	-----	-----	-----	1	11	5,400
10	Grundy.....	1	13	1,712	756,388	6	1,661	742,606	7	51	13,782
11	Hancock.....	4	1	7	2,920	-----	-----	-----	1	7	2,920
12	Henry.....	2	23	232	87,171	1	95	42,995	22	137	44,176
13	Jackson.....	10	21	1,158	724,374	7	1,071	687,857	14	87	36,517
14	Jefferson.....	10	2	48	8,038	1	45	7,958	1	3	80
15	Jersey.....	7	1	3	800	-----	-----	-----	1	3	800
16	Johnson.....	12	3	10	3,871	-----	-----	-----	3	10	3,871
17	Knox.....	2	25	112	34,517	-----	-----	-----	25	112	34,517
18	LaSalle.....	1	36	3,640	1,605,482	15	3,319	1,404,599	21	321	200,883
19	Livingston.....	1	8	155	71,685	1	45	29,682	7	110	42,003
20	Logan.....	6	4	677	429,555	4	677	429,555	-----	-----	-----
21	Macon.....	5	5	597	271,626	5	597	271,626	-----	-----	-----
22	Macoupin.....	7	17	4,681	4,913,050	13	4,650	4,890,622	4	31	22,428
23	Madison.....	8	27	4,385	3,454,536	16	4,301	3,400,930	11	84	53,606
24	Marion.....	8	6	1,399	1,203,947	6	1,399	1,203,947	-----	-----	-----
25	Marshall.....	3	13	1,067	447,094	5	1,038	441,731	8	29	5,363
26	McDonough.....	4	41	147	23,612	-----	-----	-----	41	147	23,612
27	McLean.....	6	2	200	96,898	2	200	96,898	-----	-----	-----
28	Menard.....	3	12	376	220,418	4	329	187,235	8	47	31,183
29	Mercer.....	2	12	521	334,662	3	471	318,070	9	50	16,592
30	Montgomery.....	7	10	2,672	2,280,341	10	2,672	2,280,341	-----	-----	-----
31	Moultrie.....	5	1	68	54,162	1	68	54,162	-----	-----	-----
32	Morgan.....	4	1	8	1,085	-----	-----	-----	1	8	1,085

Table 35—Concluded.

Number.	County.	District.	All mines.			Shipping mines.			Local mines.		
			Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
33	Peoria.....	3	64	1,652	1,207,723	14	1,356	1,026,151	50	266	181,572
34	Perry.....	10	24	2,430	1,406,317	19	2,402	1,394,940	5	28	11,377
35	Putman.....	3	2	1,354	716,531	2	1,354	716,531	.....	.....	.....
36	Randolph.....	10	14	1,149	762,816	10	1,127	744,506	4	22	18,310
37	Rock Island.....	2	12	152	71,696	1	29	13,040	11	123	58,656
38	Saline.....	11	30	4,687	4,088,575	18	4,659	4,076,756	12	28	11,819
39	Sangamon.....	6	34	7,382	5,488,419	29	7,249	5,402,065	5	133	86,354
40	Schuyler.....	4	4	10	2,736	.....	.....	.....	4	10	2,736
41	Scott.....	4	6	15	3,760	.....	.....	.....	6	15	3,760
42	Shelby.....	5	8	275	128,544	2	211	114,835	6	64	13,709
43	Stark.....	2	8	82	32,746	1	33	13,326	7	49	19,420
44	St. Clair.....	9	75	5,856	4,516,548	58	5,701	4,409,341	17	155	107,207
45	Tazewell.....	3	8	392	239,424	5	341	209,802	3	51	29,622
46	Vermilion.....	5	48	4,007	3,374,443	18	3,773	3,221,314	30	234	153,129
47	Warren.....	2	12	44	8,498	.....	.....	.....	12	44	8,498
48	Washington.....	10	4	419	189,883	3	416	188,083	1	3	1,800
49	White.....	11	1	55	31,774	1	55	31,774	.....	.....	.....
50	Will.....	1	3	429	179,001	2	412	174,443	1	17	4,558
51	Williamson.....	12	46	8,512	7,086,554	34	8,461	7,058,621	12	51	27,933
52	Woodford.....	3	2	423	183,896	2	423	183,896	.....	.....	.....
Total.....			879	79,411	57,514,240	380	76,407	56,096,695	499	3,004	1,417,545

Table 36 shows by districts the number of mines, the total product and its disposition. The totals for the local mines are shown at the bottom of the table.

TABLE 36—*Disposition of the output of shipping mines, by districts, also local mines.*

Districts.	Number of mines.	Total output all grades—tons.	Disposition of product—tons.			
			Shipped from mine.	Supplied to locomotives at mine.	Sold to local trade.	Consumed and wasted at mines.
First.....	24	2,351,330	1,892,803	69,102	144,941	244,484
Second.....	13	2,051,523	1,874,232	32,424	47,341	97,526
Third.....	32	2,767,346	2,502,512	57,935	115,533	91,366
Fourth.....	20	2,333,758	2,220,140	33,960	16,415	63,243
Fifth.....	34	5,002,440	4,397,168	71,712	373,582	159,778
Sixth.....	35	5,928,518	5,326,081	97,039	326,115	179,283
Seventh.....	23	7,170,963	6,759,975	58,688	91,549	260,751
Eighth.....	29	5,801,039	5,280,799	210,959	122,226	187,055
Ninth.....	58	4,409,341	3,966,571	132,368	98,836	211,566
Tenth.....	40	3,023,344	2,712,107	105,410	84,265	121,562
Eleventh.....	38	8,198,472	7,876,035	47,656	89,091	185,690
Twelfth.....	34	7,058,621	6,693,959	7,601	39,543	317,518
Shipping mines.....	380	56,096,695	51,502,382	924,854	1,549,437	2,120,022
Local mines.....	499	1,417,545	.....	.....	1,066,241	351,304
The State.....	879	57,514,240	51,502,382	924,854	2,615,678	2,471,326

Table 37 is the percentage of the items shown in the preceding table. Ninety-one and eighty-one hundredths per cent of the total output was shipped to market this year.

TABLE 37—*Percentages of the output of shipping mines and local mines, also percentages of the distribution by district—1912.*

Districts.	Number of mines.	Percentages of tons—				
		Total output.	Shipped.	To locomotive.	Sold to local trade.	Consumed or wasted at mines.
First.....	24	4.19	80.49	2.94	6.17	10.40
Second.....	13	3.65	91.35	1.58	2.31	4.76
Third.....	32	4.94	90.43	2.10	4.17	3.30
Fourth.....	20	4.16	95.14	1.45	0.70	2.71
Fifth.....	34	8.91	87.90	1.44	7.47	3.19
Sixth.....	35	10.56	89.84	1.64	5.50	3.02
Seventh.....	23	12.79	94.27	0.82	1.28	3.63
Eighth.....	29	10.34	91.03	3.64	2.11	3.22
Ninth.....	58	7.86	89.94	3.01	2.25	4.80
Tenth.....	40	5.39	89.70	3.49	2.79	4.02
Eleventh.....	38	14.62	96.07	0.59	1.09	2.25
Twelfth.....	34	12.59	94.83	0.12	0.56	4.49
Shipping mines.....	380	100.00	91.81	1.65	2.76	3.78
Local mines.....	499	100.00	.....	.....	75.22	24.78

Table 38. The percentages of the disposition of the product of the shipping and local mines is given in this table for a series of thirteen years. The per cent of the tons shipped is greater this year than for any year of the series.

TABLE 38—*Total output of the shipping and local mines of the State, also percentages of the distribution for thirteen years.*

Year.	Total output.	Percentages of—			
		Tons shipped.	Tons supplied to loco-motives.	Tons sold to local trade.	Tons consumed or wasted at the mines.
1900.....	24,026,996	87.33	3.42	5.12	4.13
1901.....	25,536,816	88.34	3.46	4.12	4.07
1902.....	28,824,750	89.07	3.30	3.74	3.89
1903.....	33,676,537	89.33	3.27	3.59	3.81
1904.....	35,779,517	88.82	3.32	3.80	4.06
1905.....	35,956,543	88.07	3.26	3.88	4.79
1906.....	37,122,811	89.16	2.79	3.75	4.30
1907.....	46,436,839	90.52	2.37	2.84	4.27
1908.....	47,809,730	91.11	2.10	2.73	4.06
1909.....	47,958,562	91.53	2.09	2.62	3.76
1910.....	47,225,201	91.07	1.87	3.40	3.66
1911.....	48,758,657	91.44	1.78	3.00	3.78
1912.....	56,096,695	91.81	1.65	2.76	3.78

LOCAL MINES.

1900.....	1,096,933	.....	5.66	85.57	8.77
1901.....	1,108,503	.....	5.84	86.62	7.54
1902.....	1,196,550	.....	1.64	89.05	9.41
1903.....	1,278,864	.....	1.29	86.86	11.85
1904.....	1,298,380	.....	2.75	89.46	7.79
1905.....	1,226,831	.....	0.49	98.20	1.31
1906.....	1,194,770	.....	.....	95.91	4.09
1907.....	1,361,782	.....	.....	86.85	13.15
1908.....	1,462,722	.....	0.84	83.04	16.12
1909.....	1,205,148	.....	1.43	88.13	10.44
1910.....	1,492,652	.....	0.05	84.53	15.42
1911.....	1,406,442	.....	0.25	82.26	17.49
1912.....	1,417,545	.....	.....	75.22	24.78

Table 39 shows the disposition of the tonnage of the shipping mines for the year by counties and districts and of the local mines by districts. The percentage of distribution is given under the totals of each district.

TABLE 39—*Disposition of output of shipping mines, by counties and districts, and local mines, by districts—1912.*

FIRST DISTRICT.

County.	Num- ber of mines.	Total tons.	Disposition of tonnage.			
			Shipped from mines.	Supplied to locomotives at mines.	Sold to local trade.	Consumed or wasted at the mines.
Grundy.....	6	742,606	594,357	2,398	20,439	125,412
LaSalle.....	15	1,404,599	1,135,230	50,348	113,446	105,575
Livingston.....	1	29,682	4,793	16,356	1,486	7,047
Will.....	2	174,443	158,423	.....	9,570	6,450
The district.....	24	2,351,330	1,892,803	69,102	144,941	244,484
Percentages.....	.....	.....	80.49	2.94	6.17	10.40
Local mines.....	.....	261,226	.....	.....	80,436	180,790

SECOND DISTRICT.

Bureau.....	7	1,664,092	1,515,414	31,031	35,295	82,352
Henry.....	1	42,995	38,422	.....	3,009	1,564
Mercer.....	3	318,070	299,205	1,393	5,892	11,580
Rock Island.....	1	13,040	11,135	.....	825	1,080
Stark.....	1	13,326	10,056	.....	2,320	950
The district.....	13	2,051,523	1,874,232	32,424	47,341	97,526
Percentages.....	.....	.....	91.35	1.58	2.31	4.76
Local mines.....	92	198,870	.....	.....	192,219	6,651

Table 39—Continued.

THIRD DISTRICT.

County.	Number of mines.	Total tons.	Disposition of tonnage.			
			Shipped from mines.	Supplied to locomotives at mines.	Sold to local trade.	Consumed or wasted at the mines.
Marshall.....	5	441,731	359,649	37,738	23,460	20,884
Menard.....	4	189,235	153,178	1,981	26,261	7,815
Peoria.....	14	1,026,151	990,987	7,430	2,712	25,022
Putnam.....	2	716,531	681,723	3,873	8,961	21,974
Tazewell.....	5	209,802	161,393	900	41,859	5,650
Woodford.....	2	183,896	155,582	6,013	12,280	10,021
The district.....	32	2,767,346	2,502,512	57,935	115,533	91,366
Percentages.....			90.43	2.10	4.17	3.30
Local mines.....	69	247,740			199,646	48,094

FOURTH DISTRICT.

Fulton.....	20	2,333,758	2,220,140	33,960	16,415	63,243
The district.....	20	2,333,758	2,220,140	33,960	16,415	63,243
Percentages.....			95.14	1.45	0.70	2.71
Local mines.....	166	137,528			133,990	3,538

FIFTH DISTRICT.

Christian.....	8	1,340,503	1,017,795	71,712	177,573	73,423
Macon.....	5	271,626	116,273		138,724	16,629
Moultrie.....	1	54,162	44,921		3,666	5,575
Shelby.....	2	114,835	90,630		14,269	9,936
Vermilion.....	18	3,221,314	3,127,549		39,350	54,415
The district.....	34	5,002,440	4,397,168	71,712	373,582	159,978
Percentages.....			87.90	1.44	7.47	3.19
Local mines.....	37	172,526			97,955	74,571

Table 39—Continued.

SIXTH DISTRICT.

County.	Number of mines.	Total tons.	Disposition of tonnage.			
			Shipped from mines.	Supplied to locomotives at mines.	Sold to local trade.	Consumed or wasted at the mines.
Logan.....	4	429,555	312,491	23,814	63,469	29,781
McLean	2	96,898	10,647	23,304	52,061	10,886
Sangamon.....	29	5,402,066	5,002,943	49,921	210,585	138,616
The district.....	35	5,928,518	5,326,081	97,039	326,115	179,283
Percentages.....			89.84	1.64	5.50	3.02
Local mines.....	5	86,354			80,759	5,595

SEVENTH DISTRICT.

Macoupin.....	13	4,890,622	4,580,249	58,688	49,318	202,367
Montgomery.....	10	2,280,341	2,179,726		42,231	58,384
The district.....	23	7,170,963	6,759,975	58,688	91,549	260,751
Percentages.....			94.27	0.82	1.28	3.63
Local mines.....	7	30,288			28,324	1,964

EIGHTH DISTRICT.

Bond.....	2	183,180	170,987		6,147	6,046
Clinton.....	5	1,012,982	892,742	54,085	14,556	51,599
Madison.....	16	3,400,930	3,243,647	12,183	57,676	87,424
Marion.....	6	1,203,947	973,423	144,691	43,847	41,986
The district.....	29	5,801,039	5,280,799	210,959	122,226	187,055
Percentages.....			91.03	3.64	2.11	3.22
Local mines.....	11	53,606			33,211	20,395

NINTH DISTRICT.

St. Clair.....	58	4,409,341	3,966,571	132,368	98,836	211,566
The district.....	58	4,409,341	3,966,571	132,368	98,836	211,566
Percentages.....			89.94	3.01	2.25	4.80
Local mines.....	17	107,207			104,495	2,712

Table 39—Concluded.

TENTH DISTRICT.

County.	Number of mines.	Total tons.	Disposition of tonnage.			
			Shipped from mines.	Supplied to locomotives at mines.	Sold to local trade.	Consumed or wasted at the mines.
Jackson.....	7	687,857	556,732	44,941	31,112	55,072
Jefferson.....	1	7,958	3,122	.....	3,916	920
Perry.....	19	1,394,940	1,270,491	58,414	24,896	41,139
Randolph.....	10	744,506	716,027	.....	12,232	16,247
Washington.....	3	188,083	165,735	2,055	12,019	8,184
The district.....	40	3,023,344	2,712,107	105,410	84,265	121,562
Percentages.....	.....	.....	89.70	3.49	2.79	4.02
Local mines.....	25	68,084	.....	.....	63,325	4,759

ELEVENTH DISTRICT.

Franklin.....	16	4,026,815	3,862,229	625	48,191	115,770
Gallatin.....	3	63,127	56,332	4,615	1,574	606
Saline.....	18	4,076,756	3,937,538	38,870	32,573	67,775
White.....	1	31,774	19,936	3,546	6,753	1,539
The district.....	38	8,198,472	7,876,035	47,656	89,091	185,690
Percentages.....	.....	.....	9,607	0.59	1.09	2.25
Local mines.....	19	22,312	.....	.....	22,042	270

TWELFTH DISTRICT.

Williamson.....	34	7,058,621	6,693,959	7,601	39,543	317,518
The district.....	34	7,058,621	6,693,959	7,601	39,543	317,518
Percentages.....	.....	.....	94.83	0.12	0.56	4.49
Local mines.....	15	31,804	.....	.....	29,839	1,965

RAILROADS.

Table 40. In this table the number of tons of coal hauled to market by the different railroads, the number of tons used by the locomotives and the counties contributing the same are shown.

This year 33,744 tons were shipped by boat, leaving 51,468,638 tons transported by the forty-one railroads. The Illinois Central hauled 7,444,747 tons, or 14.46 per cent. The Chicago, Burlington & Quincy Railroad is in second place this year. Franklin County furnished 28.4 per cent of the total tons hauled by this road.

TABLE 40—*Railroads which have transported the coal produced by the shipping mines of the State, the counties contributing the tonnage to each road, and percentage.*

Number.	Railroads and counties.	Number of—		Tons received by each road for—		Percentage—	
		Counties.	Mines.	Shipment.	Locomotives.	Shipped.	Supplied to locomotives.
	The State.....		380	51,502,382	924,854	100.00	100.00
1	Illinois Central.....	21	113	7,444,747	335,283	100.00	100.00
	Williamson.....		18	2,069,734	6,540	27.80	1.95
	Perry.....		14	859,338	54,015	11.54	16.11
	Marion.....		6	624,410	144,691	8.39	43.15
	Sangamon.....		8	607,694		8.16	
	Franklin.....		6	559,534	625	7.52	0.19
	St. Clair.....		21	511,416	39,670	6.87	11.83
	Jackson.....		4	368,449	44,941	4.95	13.40
	Madison.....		2	355,318	596	4.77	0.18
	Christian.....		5	285,508		3.84	
	Macoupin.....		1	224,790	17,585	3.02	5.25
	Logan.....		4	179,776	23,814	2.42	7.10
	Randolph.....		5	179,689		2.41	
	Washington.....		2	159,707		2.15	
	LaSalle.....		4	142,421		1.91	
	Montgomery.....		2	90,252		1.21	
	Marshall.....		1	79,744		1.07	
	Shelby.....		1	38,254		0.51	
	Woodford.....		1	38,109		0.51	
	Macon.....		2	31,102		0.42	
	Saline.....		4	29,892		0.40	
	McLean.....		2	9,610	2,806	0.13	0.84
2	Chicago, Burlington and Quincy.	13	51	7,194,537	21,741	100.00	100.00
	Franklin.....		7	2,044,206		28.41	
	Fulton.....		15	1,829,372	21,733	25.43	99.96
	Williamson.....		10	1,317,200	8	18.31	.04
	Macoupin.....		3	691,255		9.61	
	LaSalle.....		5	355,184		4.94	
	Sangamon.....		1	311,414		4.33	
	Marion.....		1	288,609		4.01	
	Peoria.....		4	262,797		3.65	
	Henry.....		1	38,422		0.53	
	Montgomery.....		1	19,014		0.27	
	Bond.....		1	15,400		0.21	
	Bureau.....		1	11,518		0.16	
	Stark.....		1	10,056		0.14	

Table 40—Continued.

Number.	Railroads and counties.	Number of—		Tons received by each road for—		Percentage—	
		Coun- ties.	Mines.	Shipment.	Lo- comotives.	Shipped.	Supplied to locomotives.
3	Chicago & Eastern Illinois	7	30	5,741,075	26,348	100.00	100.00
	Vermilion		9	2,617,405		45.59	
	Williamson		7	1,171,721		20.41	
	Franklin		6	914,206		15.92	
	Montgomery		4	594,931		10.37	
	Madison		1	363,894		6.34	
	Christian		2	78,358	26,348	1.36	100.00
	Jefferson		1	560		.01	
4	Cleve., Cin., Chicago & St. L.	9	37	5,600,990	84,829	100.00	100.00
	Saline		17	3,882,196	38,870	69.31	45.82
	Montgomery		6	953,430		17.02	
	Madison		1	363,894		6.50	
	Vermilion		5	248,847		4.44	
	Tazewell		2	72,761		1.30	
	Shelby		1	52,376		0.94	
	Christian		3	27,153	25,461	0.48	30.01
	McLean		1	293	20,498	.01	24.17
	LaSalle		1	40			
5	Wabash	9	27	3,095,428	93,079	100.00	100.00
	Sangamon		8	1,071,492	34,077	34.62	36.61
	Macoupin		3	1,025,672	39,099	33.13	42.01
	Christian		3	611,785	19,903	19.77	21.38
	Madison		5	148,891		4.81	
	Vermilion		1	113,875		3.68	
	Macon		3	62,898		2.03	
	Moultrie		1	44,912		1.45	
	Montgomery		1	9,025		0.29	
	LaSalle		2	6,878		0.22	
6	Chicago & Alton	9	37	2,525,705	10,972	100.00	100.00
	Sangamon		16	1,738,365	1,672	68.83	15.24
	Macoupin		6	385,323	2,004	15.26	18.27
	Logan		2	132,715		5.25	
	Menard		2	69,311		2.74	
	LaSalle		4	67,362	7,296	2.67	66.49
	Will		1	64,579		2.56	
	Marshall		2	62,756		2.48	
	Grundy		3	5,041		0.20	
	McLean		1	253		0.01	
7	St. Louis, Iron Mt. & Southern ..	3	24	2,483,792	1,053	100.00	100.00
	Williamson		18	2,055,168	1,053	82.74	100.00
	Franklin		4	344,193		13.86	
	Jackson		2	84,431		3.40	
8	Macoupin County Railway	1	3	2,253,209		100.00	
	Macoupin		3	2,253,209		100.00	
9	Chicago, Milwaukee & St. Paul ..	3	6	1,427,786	23,943	100.00	100.00
	Putnam		2	681,723	3,873	47.75	16.18
	Bureau		2	393,623	18,889	27.57	78.89
	LaSalle		2	332,440	1,181	24.68	4.93

Table 40—Continued.

Number.	Railroads and counties.	Number of—		Tons received by each road for—		Percentage—	
		Coun- ties.	Mines.	Shipment.	Lo- como- tives.	Shipped.	Supplied to locomo- tives.
10	Balt. & Ohio Southwestern	6	21	1,201,927	57,631	100.00	100.00
	Clinton		4	566,616	54,085	47.14	93.85
	St. Clair		7	354,551		29.50	
	Sangamon		5	185,429		15.43	
	Marion		1	60,404		5.02	
	White		1	19,936	3,546	1.66	6.15
	Christian		3	14,991		1.25	
11	Southern	3	12	1,042,345	1,167	100.00	100.00
	St. Clair		10	715,757	1,167	68.67	100.00
	Clinton		1	326,126		31.29	
	Jefferson		1	462		0.04	
12	Chicago & Northwestern	1	5	974,920	12,142	100.00	100.00
	Bureau		5	974,920	12,142	100.00	100.00
13	Vandalia Line	4	8	924,359		100.00	
	St. Clair		1	449,805		48.66	
	Madison		3	333,859		36.12	
	Bond		1	123,380		13.35	
	Macon		3	17,815		1.87	
14	Litchfield & Madison	1	5	838,636	5,941	100.00	100.00
	Madison		5	838,636	5,941	100.00	100.00
15	East St. Louis & Suburban	1	6	804,836	614	100.00	100.00
	St. Clair		6	804,836	614	100.00	100.00
16	St. Louis, Troy & Eastern	1	3	781,835	1,057	100.00	100.00
	Madison		3	781,835	1,057	100.00	100.00
17	Mobile & Ohio	3	7	773,714		100.00	
	Perry		2	341,040		44.08	
	Randolph		3	328,822		42.50	
	Jackson		2	103,852		13.42	
18	St. Louis & O'Fallon	1	2	680,481	6,418	100.00	100.00
	St. Clair		2	680,481	6,418	100.00	100.00
19	Toledo, St. Louis & Western	3	4	547,421		100.00	
	Montgomery		2	513,074		93.54	
	Bond		1	32,207		5.88	
	Madison		1	2,140		0.53	
20	Louisville & Nashville	5	21	539,635	91,169	100.00	100.00
	St. Clair		13	449,725	84,499	83.34	92.68
	Gallatin		3	56,332	4,615	10.44	5.06
	Saline		3	25,450		4.71	
	Washington		1	6,028	2,055	1.12	2.26
	Jefferson		1	2,100		0.39	

Table 40—Continued.

Number.	Railroads and counties.	Number of—		Tons received by each road for—		Percentage—	
		Coun- ties.	Mines.	Shipment.	Lo- como- tives.	Shipped.	Supplied to locomo- tives.
21	Chicago, Peoria & St. Louis.....	2	11	538,336	12,431	100.00	100.00
	Sangamon.....	9		454,469	10,450	84.42	84.06
	Menard.....	2		83,867	1,981	15.58	15.94
22	Elgin, Joliet & Eastern.....	2	7	514,805	2,398	100.00	100.00
	Grundy.....	6		420,961	2,398	81.77	100.00
	Will.....	1		93,844		18.23	
23	Minneapolis & St. Paul.....	2	5	492,285		100.00	100.00
	Peoria.....	2		292,917		59.50	
	Fulton.....	3		199,368		40.50	
24	Chicago, Rock Island & Pacific..	5	12	438,977	43,264	100.00	100.00
	LaSalle.....	6		139,144	41,871	31.70	96.78
	Bureau.....	1		135,353		30.83	
	Mercer.....	1		97,320	1,393	22.17	3.22
	Marshall.....	3		56,025		12.76	
	Rock Island.....	1		11,135		2.54	
25	Chicago & Illinois Midland.....	1	1	364,392	3,722	100.00	100.00
	Sangamon.....	1		364,392	3,722	100.00	100.00
26	Atchison, Topeka & Santa Fé ..	5	9	360,749	44,651	100.00	100.00
	Marshall.....	1		161,124	37,738	44.66	84.52
	Woodford.....	2		117,473	6,013	32.56	13.47
	Tazewell.....	2		65,674	900	18.22	2.01
	LaSalle.....	2		11,050		3.06	
	Grundy.....	2		5,428		1.50	
27	Illinois Traction System	3	10	351,593		100.00	
	Sangamon.....	3		158,202		45.00	
	Vermilion.....	6		147,422		41.93	
	Madison.....	1		45,969		13.07	
28	Toledo, Peoria & Western.....	3	4	231,942	28,583	100.00	100.00
	Peoria.....	2		116,493		50.23	
	Fulton.....	1		110,656	12,227	47.71	42.78
	Livingston.....	1		4,793	16,356	2.06	57.22
29	Illinois Southern.....	2	4	223,974		100.00	
	Randolph.....	3		207,516		92.65	
	Perry.....	1		16,458		7.35	
30	Rock Island & Southern.....	1	2	201,885		100.00	
	Mercer.....	2		201,885		100.00	
31	Chicago & Great Western.....	1	2	162,927		100.00	
	Grundy.....	2		162,927		100.00	

Table 40—Concluded.

Number.	Railroads and counties.	Number of—		Tons received by each road for—		Percentage—	
		Coun- ties.	Mines.	Shipment.	Lo- como- tives.	Shipped.	Supplied to locomo- tives.
32	Peoria & Pekin Union.....	2	5	162,539	7,430	100.00	100.00
	Peoria.....		4	154,840	7,430	95.27	100.00
	Tazewell.....		1	7,690		4.73	
33	Peoria Railway Terminal.....	1	3	130,196		100.00	
	Peoria.....		3	130,196		100.00	
34	Cincinnati, Hamilton & Dayton.	2	6	116,444		100.00	
	Sangamon.....		4	111,486		95.74	
	Macon.....		2	4,958		4.26	
35	Iowa Central.....	1	1	80,744		100.00	
	Fulton.....		1	80,744		100.00	
36	Chicago, Indiana & Southern...	1	3	60,711		100.00	
	LaSalle.....		3	60,711		100.00	
37	Wabash, Chester & Western	1	4	53,655	4,399	100.00	100.00
	Perry.....		4	53,655	4,399	100.00	100.00
38	Coal Belt.....	1	2	43,973		100.00	
	Williamson.....		2	43,973		100.00	
39	Eldorado, Marion & S. W.....	1	1	36,163		100.00	
	Williamson.....		1	36,163		100.00	
40	Lake Erie & Western.....	2	2	15,759		100.00	
	Tazewell.....		1	15,268		96.88	
	McLean.....		1	491		3.12	
41	Illinois Terminal.....	1	1	9,211	4,589	100.00	100.00
	Madison.....		1	9,211	4,589	100.00	
	By boats—Illinois River.....	1	2	33,744		100.00	
	Peoria.....		2	33,744		100.00	

Table 41 shows in a condensed form the names of the forty-one railroads which transported the product of the shipping mines. The number of counties and the number of mines served, the number of tons shipped and number used on locomotives, and the per cent of the total hauled by each road is also given. Four of these roads hauled on an average 6,495,337 tons, or more than one-half of the total tons shipped.

TABLE 41.—*Railroads to which the coal has been delivered for shipment and for use on locomotives and the number of tons to each.*

Number.	Railroads.	Number of—		Tons received by each road for—		Total tons.	Per cent hauled by each road.
		Counties.	Mines.	Shipment.	Locomotives.		
	Total—41 railroads and boats.....	.....	380	51,502,382	924,854	52,427,236	100.00
1	Illinois Central.....	21	113	7,444,747	335,283	7,780,030	14.46
2	Chicago, Burlington & Quincy.....	13	51	7,194,537	21,741	7,216,278	13.97
3	Chicago & Eastern Illinois.....	7	30	5,741,075	26,348	5,767,423	11.15
4	Cleveland, Cin., Chi. & St. Louis.....	9	37	5,600,990	84,829	5,685,819	10.88
5	Wabash.....	9	27	3,095,428	93,079	3,188,507	6.01
6	Chicago & Alton.....	9	37	2,525,705	10,972	2,536,677	4.90
7	St. Louis, Iron Mt. & Southern.....	3	24	2,483,792	1,053	2,484,845	4.82
8	Macoupin County Ry.....	1	3	2,253,209	.....	2,253,209	4.37
9	Chicago, Milwaukee & St. Paul.....	3	6	1,427,786	23,943	1,451,729	2.77
10	Baltimore & Ohio Southwestern.....	6	21	1,201,927	57,631	1,259,558	2.33
11	Southern.....	3	12	1,042,345	1,167	1,043,512	2.02
12	Chicago & Northwestern.....	1	5	974,920	12,142	987,062	1.89
13	Vandalia Line.....	4	8	924,359	.....	924,359	1.79
14	Litchfield & Madison.....	1	5	838,636	5,941	844,577	1.63
15	East St. Louis & Suburban.....	1	6	804,836	614	805,450	1.56
16	St. Louis, Troy & Eastern.....	1	3	781,835	1,057	782,892	1.52
17	Mobile & Ohio.....	3	7	773,714	.....	773,714	1.50
18	St. Louis & O'Fallon.....	1	2	680,481	6,418	686,899	1.32
19	Toledo, St. Louis & Western.....	3	4	547,421	.....	547,421	1.06
20	Louisville & Nashville.....	5	21	539,635	91,169	630,804	1.05
21	Chicago, Peoria & St. Louis.....	2	11	538,336	12,431	550,767	1.05
22	Elgin, Joliet & Eastern.....	2	7	514,805	2,398	517,203	1.00
23	Minneapolis & St. Paul.....	2	5	492,285	.....	492,285	.96
24	Chicago, Rock Island & Pacific.....	5	12	438,977	43,264	482,241	.85
25	Chicago & Illinois Midland.....	1	1	364,392	3,722	368,114	.71
26	Atchison, Topeka & Santa Fé.....	5	9	360,749	44,651	405,400	.70
27	Illinois Traction System.....	3	10	351,593	.....	351,593	.68

Table 41—Concluded.

Number.	Railroads.	Number of—		Tons received by each road for—		Total tons.	Per cent hauled by each road.
		Coun- ties.	Mines.	Ship- ment.	Locomo- tives.		
28	Toledo, Peoria & Western.....	3	4	231,942	28,583	260,525	.45
29	Illinois Southern.....	2	4	223,974	.....	223,974	.43
30	Rock Island & Southern.....	1	2	201,885	.....	201,885	.39
31	Chicago & Great Western.....	1	2	162,927	.....	162,927	.32
32	Peoria & Pekin Union.....	2	5	162,539	7,430	169,969	.32
33	Peoria Railway Terminal.....	1	3	130,196	.....	130,196	.25
34	Cincinnati, Hamilton & Dayton....	2	6	116,444	.....	116,444	.23
35	Iowa Central.....	1	1	80,744	.....	80,744	.16
36	Chicago, Indiana & Southern.....	1	3	60,711	.....	60,711	.12
37	Wabash, Chester & Western.....	1	4	53,655	4,399	58,054	.10
38	Coal Belt.....	1	2	43,973	.....	43,973	.09
39	Eldorado, Marion & Southwestern ..	1	1	36,163	.....	36,163	.07
40	Lake Erie & Western.....	2	2	15,759	.....	15,759	.03
41	Illinois Terminal.....	1	1	9,211	4,589	13,800	.02
	By boat—Illinois River.....	1	2	33,744	.....	33,744	.07

Table 42 is a list of the forty-one counties which supplied the commercial coal. They are arranged according to tonnage shipped and show the names and number of railroads, the number of mines supplying, the number of tons hauled and the per cent carried by each road.

TABLE 42—Counties which have produced the commercial coal of the State, the tonnage delivered to the several railroads in each for transportation and the per cent hauled by each road.

Number.	Counties and railroads.	Number of—		Tons delivered to each railroad.	Total tons shipped and per cent to each road.
		Rail- roads.	Mines.		
1	Williamson.....	6	.....	.....	6,692,959
	Illinois Central.....	18	.....	2,069,734	30.92
	St. Louis, Iron Mountain & Southern.....	18	.....	2,055,168	30.70
	Chicago, Burlington & Quincy.....	10	.....	1,317,200	19.68
	Chicago & Eastern Illinois.....	7	.....	1,171,721	17.50
	Coal Belt.....	2	.....	43,973	0.66
	Eldorado, Marion & Southwestern.....	1	.....	36,163	0.54

Table 42—Continued.

Number.	Counties and railroads.	Number of—		Tons delivered to each railroad.	Total tons shipped and per cent to each road.
		Railroads.	Mines.		
2	Sangamon.....	9			5,002,943
	Chicaco & Alton.....	16		1,738,365	34.75
	Wabash.....	8		1,071,492	21.42
	Illinois Central.....	8		607,694	12.15
	Chicago, Peoria & St. Louis.....	9		454,469	9.08
	Chicago & Illinois Midland.....	1		364,392	7.28
	Chicago, Burlington & Quincy.....	1		311,414	6.22
	Baltimore & Ohio Southwestern.....	5		185,429	3.71
	Illinois Traction System.....	3		158,202	3.16
	Chicago, Hamilton & Dayton.....	4		111,486	2.23
3	Macoupin.....	5			4,580,249
	Macoupin County Railway.....	3		2,253,209	49.20
	Wabash.....	3		1,025,672	22.39
	Chicago, Burlington & Quincy.....	3		691,255	15.09
	Chicago & Alton.....	6		385,323	8.41
	Illinois Central.....	1		224,790	4.91
4	St. Clair.....	7			3,966,571
	East St. Louis & Suburban.....	6		804,836	20.29
	Southern.....	10		715,757	18.09
	St. Louis & O'Fallon.....	2		680,481	17.15
	Illinois Central.....	21		511,416	12.80
	Vandalia Line.....	1		449,805	11.34
	Louisville & Nashville.....	13		449,725	11.34
	Baltimore & Ohio Southwestern.....	7		354,551	8.99
5	Saline.....	3			3,937,538
	Cleveland, Cincinnati, Chicago & St. Louis.....	17		3,882,196	98.59
	Illinois Central.....	4		29,892	0.76
	Louisville & Nashville.....	3		25,450	0.65
6	Franklin.....	4			3,862,229
	Chicago, Burlington & Quincy.....	7		2,044,296	52.93
	Chicago, & Eastern Illinois.....	6		914,206	23.67
	Illinois Central.....	6		559,534	14.49
	St. Louis, Iron Mountain & Southern.....	4		344,193	8.91
7	Madison.....	10			3,243,647
	Litchfield & Madison.....	5		838,636	25.86
	St. Louis, Troy & Eastern.....	3		781,835	24.10
	Cleveland, Cincinnati, Chicago & St. Louis.....	1		363,894	11.22
	Chicago & Eastern Illinois.....	1		363,894	11.22
	Illinois Central.....	2		355,318	10.95
	Vandalia Line.....	3		333,859	10.29
	Wabash.....	5		148,891	4.59
	Illinois Traction System.....	1		45,969	1.42
	Illinois Terminal.....	1		9,211	0.28
	Toledo, St. Louis & Western.....	1		2,140	0.07
8	Vermilion.....	4			3,127,549
	Chicago & Eastern Illinois.....	9		2,617,405	83.69
	Cleveland, Cincinnati, Chicago & St. Louis.....	5		248,847	7.96
	Illinois Traction System.....	6		147,422	4.71
	Wabash.....	1		113,875	3.64

Table 42—Continued.

Number.	Counties and railroads.	Number of—		Tons delivered to each railroad.	Total tons shipped and per cent to each road.
		Rail-roads.	Mines.		
9	Fulton.....	4			2,220,140
	Chicago, Burlington & Quincy.....		15	1,829,372	82.40
	Minneapolis & St. Louis.....		3	199,368	8.98
	Toledo, Peoria & Western.....		1	110,656	4.98
	Iowa Central.....		1	80,744	3.64
10	Montgomery.....	6			2,179,726
	Cleveland, Cincinnati, Chicago & St. Louis.....		6	953,430	43.74
	Chicago & Eastern Illinois.....		4	594,931	27.29
	Toledo, St. Louis & Western.....		2	513,074	23.54
	Illinois Central.....		2	90,252	4.14
	Chicago, Burlington & Quincy.....		1	19,014	0.88
	Wabash.....		1	9,025	0.41
11	Bureau.....	4			1,515,414
	Chicago & Northwestern.....		5	974,920	64.33
	Chicago, Milwaukee & St. Paul.....		2	393,623	25.98
	Chicago, Rock Island & Pacific.....		1	135,353	8.93
	Chicago, Burlington & Quincy.....		1	11,518	0.76
12	Perry.....	4			1,270,491
	Illinois Central.....		14	859,338	67.64
	Mobile & Ohio.....		2	341,040	26.84
	Wabash, Chester & Western.....		4	53,625	4.22
	Illinois Southern.....		1	16,458	1.30
13	LaSalle.....	9			1,135,230
	Chicago, Burlington & Quincy.....		5	355,184	31.29
	Chicago, Milwaukee & St. Paul.....		2	352,440	31.05
	Illinois Central.....		4	142,421	12.55
	Chicago, Rock Island & Pacific.....		6	139,144	12.26
	Chicago & Alton.....		4	67,362	5.93
	Chicago, Indiana & Southern.....		3	60,711	5.35
	Atchison, Topeka & Santa Fé.....		2	11,050	0.97
	Wabash.....		2	6,878	0.60
	Cleveland, Cincinnati, Chicago & St. Louis.....		1	40	
14	Christian.....	5			1,017,795
	Wabash.....		3	611,785	60.11
	Illinois Central.....		5	285,508	28.05
	Chicago & Eastern Illinois.....		2	78,358	7.70
	Cleveland, Cincinnati, Chicago & St. Louis.....		3	27,153	2.67
	Baltimore & Ohio Southwestern.....		1	14,991	1.47
15	Peoria.....	5			957,243
	Minneapolis & St. Louis.....		2	292,917	30.60
	Chicago, Burlington & Quincy.....		4	262,797	27.46
	Peoria & Pekin Union.....		4	154,840	16.17
	Peoria Railway Terminal.....		3	130,196	13.60
	Toledo, Peoria & Western.....		2	115,493	12.17
16	Marion.....	3			973,423
	Illinois Central.....		6	624,410	64.15
	Chicago, Burlington & Quincy.....		1	288,609	29.65
	Baltimore & Ohio Southwestern.....		1	60,404	6.20

Table 42—Continued.

Number.	Counties and railroads.	Number of—		Tons delivered to each railroad.	Total tons shipped and per cent to each road.
		Railroads.	Mines.		
17	Clinton.....	2			892, 742
	Baltimore & Ohio Southwestern.....		4	566, 616	63.47
	Southern.....		1	326, 126	36.53
18	Randolph.....	3			716, 027
	Mobile & Ohio.....		3	328, 822	45.92
	Illinois Southern.....		3	207, 516	28.98
	Illinois Central.....		5	179, 689	25.10
19	Putnam.....	1			618, 723
	Chicago, Milwaukee & St. Paul.....		2	618, 723	100.00
20	Grundy.....	4			594, 357
	Elgin, Joliet & Eastern.....		6	420, 961	70.83
	Chicago & Great Western.....		2	162, 927	27.41
	Atchison, Topeka & Santa Fé.....		2	5, 428	0.91
	Chicago & Alton.....		3	5, 041	0.85
21	Jackson.....	3			556, 732
	Illinois Central.....		4	368, 449	66.18
	Mobile & Ohio.....		2	103, 852	18.65
	St. Louis, Iron Mountain & Southern.....		2	84, 431	15.17
22	Marshall.....	4			359, 649
	Atchison, Topeka & Santa Fé.....		1	161, 124	44.80
	Illinois Central.....		1	79, 744	22.20
	Chicago & Alton.....		2	62, 756	17.45
	Chicago, Rock Island & Pacific.....		3	56, 025	15.55
23	Logan.....	2			312, 491
	Illinois Central.....		4	179, 776	57.53
	Chicago & Alton.....		2	132, 715	42.47
24	Mercer.....	2			299, 205
	Rock Island & Southern.....		2	201, 885	67.47
	Chicago, Rock Island & Pacific.....		1	97, 320	32.53
25	Bond.....	3			170, 987
	Vandalia Line.....		1	123, 380	72.16
	Toledo, St. Louis & Western.....		1	32, 207	18.84
	Chicago, Burlington & Quincy.....		1	15, 400	9.00
26	Washington.....	2			165, 735
	Illinois Central.....		2	159, 707	96.36
	Louisville & Nashville.....		1	6, 028	3.64
27	Tazewell.....	4			161, 393
	Cleveland, Cincinnati, Chicago & St. Louis.....		2	72, 761	45.08
	Atchison, Topeka & Santa Fé.....		2	65, 674	40.69
	Lake Erie & Western.....		1	15, 268	9.46
	Peoria & Pekin Union.....		1	7, 690	4.77

Table 42—Continued.

Number.	Counties and railroads.	Number of—		Tons delivered to each railroad.	Total tons shipped and per cent to each road.
		Railroads.	Mines.		
28	Will.....	2	.....	.....	158,423
	Elgin, Joliet & Eastern.....	.....	1	93,844	54.24
	Chicago & Alton.....	.....	1	64,579	45.76
29	Woodford.....	2	.....	.....	155,582
	Atchison, Topeka & Santa Fé.....	.....	2	117,473	75.50
	Illinois Central.....	.....	1	38,109	24.50
30	Menard.....	2	.....	.....	153,178
	Chicago, Peoria & St. Louis.....	.....	2	83,867	54.75
	Chicago & Alton.....	.....	2	69,311	45.25
31	Macon.....	4	.....	.....	116,273
	Wabash.....	.....	3	62,898	54.09
	Illinois Central.....	.....	2	31,102	26.75
	Vandalia Line.....	.....	3	17,315	14.89
	Cincinnati, Hamilton & Dayton.....	.....	2	4,958	4.27
32	Shelby.....	2	.....	.....	90,630
	Cleveland, Cincinnati, Chicago & St. Louis.....	.....	1	52,376	57.79
	Illinois Central.....	.....	1	38,254	42.21
33	Gallatin.....	1	.....	.....	56,332
	Louisville & Nashville.....	.....	3	56,332	100.00
34	Moultrie.....	1	.....	.....	44,921
	Wabash.....	.....	1	44,921	100.00
35	Henry.....	1	.....	.....	38,422
	Chicago, Burlington & Quincy.....	.....	1	38,422	100.00
36	White.....	1	.....	.....	19,936
	Baltimore & Ohio Southwestern.....	.....	1	19,936	100.00
37	McLean.....	4	.....	.....	10,647
	Illinois Central.....	.....	2	9,610	90.26
	Lake Erie & Western.....	.....	1	491	4.61
	Cleveland, Cincinnati, Chicago & St. Louis.....	.....	1	293	2.75
	Chicago & Alton.....	.....	1	253	2.38
38	Rock Island.....	1	.....	.....	11,135
	Chicago, Rock Island & Pacific.....	.....	1	11,135	100.00
39	Stark.....	1	.....	.....	10,056
	Chicago, Burlington & Quincy.....	.....	1	10,056	100.00
40	Livingston.....	1	.....	.....	4,793
	Toledo, Peoria & Western.....	.....	1	4,793	100.00

Table 42—Concluded.

Number.	Counties and railroads.	Number of—		Tons delivered to each railroad.	Total tons shipped and per cent to each road.
		Railroads.	Mines.		
41	Jefferson.....	3			3,122
	Louisville & Nashville.....		1	2,100	67.26
	Chicago & Eastern Illinois.....		1	560	17.94
	Southern.....		1	462	14.80
	By boat—Illinois River—Peoria County.....		2	33,744	100.00
	The State.....			51,502,382	

Table 43 is a condensed showing of the counties from which coal has been shipped, giving the number of mines, the number of railroads and the total tons shipped and used on locomotives. The per cent furnished by each county of the tonnage shipped, the total product of each county and the per cent shipped is also shown.

TABLE 43—Counties furnishing the commercial coal, number of shipping mines, number of railroads, tons delivered for shipment and for use on locomotives and the per cent of the total tons shipped furnished by each county; also, total product and the per cent shipped.

Number.	Counties.	Number of—		Tons delivered to railroads for—		Per cent furnished by each county.	Total product—Tons.	Per cent of total product shipped by each county.
		Mines.	Railroads.	Shipment.	Locomotives.			
	Total 41 counties	380	.....	51,502,382	924,854	100.00	56,096,665	91.81
1	Williamson.....	34	6	6,693,959	7,601	13.00	7,058,621	94.83
2	Sangamon.....	29	9	5,002,943	49,921	9.71	5,402,065	92.61
3	Macoupin.....	13	5	4,580,249	58,688	8.89	4,890,622	93.65
4	St. Clair.....	58	7	3,966,571	132,368	7.70	4,409,341	89.96
5	Saline.....	18	3	3,937,538	38,870	7.65	4,076,756	96.58
6	Franklin.....	16	4	3,862,229	625	7.50	4,026,815	95.91
7	Madison.....	16	10	3,243,647	12,183	6.30	3,400,930	95.38
8	Vermilion.....	18	4	3,127,549	.....	6.07	3,221,314	97.09
9	Fulton.....	20	4	2,220,140	33,960	4.31	2,333,758	95.13
10	Montgomery....	10	6	2,179,726	.....	4.23	2,280,341	95.59
11	Bureau.....	7	4	1,515,414	31,031	2.94	1,664,092	91.07
12	Perry.....	19	4	1,270,491	58,414	2.47	1,394,940	91.07
13	LaSalle.....	15	9	1,135,230	50,348	2.20	1,404,599	80.82
14	Christian.....	8	5	1,017,795	71,712	1.98	1,340,503	75.93

Table 43—Concluded.

Number.	Counties.	Number of—		Tons delivered to railroads for—		Per cent furnished by each county.	Total product—Tons.	Per cent of total product shipped by each county.
		Mines.	Railroads.	Shipment.	Locomotives.			
15	Peoria.....	14	5	957,243	7,430	1.86	1,026,151	93.29
16	Marion.....	6	3	973,423	144,691	1.89	1,203,947	80.02
17	Clinton.....	5	2	892,742	54,085	1.73	1,012,982	88.13
18	Randolph.....	10	3	716,027	.....	1.39	744,506	96.17
19	Putnam.....	2	1	681,723	3,873	1.32	716,531	95.14
20	Grundy.....	6	4	594,557	2,398	1.15	742,606	80.06
21	Jackson.....	7	3	556,732	44,941	1.08	687,857	80.94
22	Marshall.....	5	4	359,649	37,738	0.70	441,731	81.42
23	Logan.....	4	2	312,491	23,814	0.61	429,555	72.75
24	Mercer.....	3	2	299,205	1,393	0.58	318,070	94.07
25	Bond.....	2	3	170,987	.....	0.33	183,180	93.34
26	Washington....	3	2	165,735	2,055	0.32	188,083	88.12
27	Tazewell.....	5	4	161,393	900	0.31	209,802	76.93
28	Will.....	2	2	158,423	.....	0.31	174,443	90.82
29	Woodford.....	2	2	155,582	6,013	0.30	183,896	84.60
30	Menard.....	4	2	153,178	1,981	0.30	189,235	80.95
31	Macon.....	5	4	116,273	.....	0.23	271,626	42.86
32	Shelby.....	2	2	90,630	.....	0.18	114,835	78.92
33	Gallatin.....	3	1	56,332	4,615	0.11	63,127	89.24
34	Moultrie.....	1	1	44,921	.....	0.09	54,162	82.94
35	Henry.....	1	1	38,422	.....	0.07	42,995	89.36
36	White.....	1	1	19,936	3,546	0.04	31,744	62.80
37	Rock Island....	1	1	11,135	.....	0.02	13,040	85.39
38	McLean.....	2	4	10,647	23,304	0.02	96,898	10.99
39	Stark.....	1	1	10,056	.....	0.02	13,326	75.46
40	Livingston.....	1	1	4,793	16,356	0.01	29,682	16.15
41	Jefferson.....	1	3	3,122	.....	0.01	7,958	39.23
	Peoria—By boat	1	.....	33,744	.....	0.07	.....	3.29

DAYS OF OPERATION.

Table 44 shows, by districts, the number of mines, men and days worked for all mines and for shipping and local mines. The shipping mines worked on an average of 172 days, which is three more than this class of mines were operated last year.

TABLE 44—*Days of active operation, by districts.*

Districts.	All mines.			Shipping mines.			Local mines.		
	Mines.	Men.	Days.	Mines.	Men.	Days.	Mines.	Men.	Days.
First.....	60	5,936	180	24	5,437	202	36	499	196
Second.....	105	5,088	152	13	4,529	109	92	559	144
Third.....	101	5,264	172	32	4,871	205	69	393	157
Fourth.....	186	4,095	146	20	3,540	183	166	555	141
Fifth.....	71	7,018	178	34	6,707	185	37	311	172
Sixth.....	40	8,259	169	35	8,126	174	5	133	134
Seventh.....	30	7,377	148	23	7,322	183	7	55	177
Eighth.....	40	7,415	172	29	7,331	170	11	84	180
Ninth.....	75	5,856	132	58	5,701	130	17	155	190
Tenth.....	65	5,204	141	40	5,061	135	25	143	150
Eleventh.....	57	9,377	179	38	9,321	194	19	56	148
Twelfth.....	49	8,522	150	34	8,461	167	15	61	112
The State.....	879	79,411	160	380	76,407	172	499	3,004	152

Table 45 gives the record of the number of mines, men and days worked for thirteen years.

For all mines the number of days worked this year is less than for any year of the series.

TABLE 45—*Days of active operation, for a series of thirteen years.*

Year.	Mines, men and average days worked.								
	All mines.			Shipping mines.			Local mines.		
	Mines.	Men.	Days.	Mines.	Men.	Days.	Mines.	Men.	Days.
1900.....	920	39,384	182.6	323	36,298	214.0	597	3,084	166.4
1901.....	915	44,143	174.3	331	40,940	204.4	584	3,217	157.0
1902.....	915	46,005	179.5	332	42,807	210.2	583	3,198	161.9
1903.....	933	49,814	192.1	353	46,494	221.8	580	3,320	170.7
1904.....	932	54,774	197.9	380	51,384	213.3	552	3,399	184.9
1905.....	990	59,230	173.7	397	55,743	198.5	593	3,487	158.0
1906.....	1,018	62,283	172.0	419	58,851	189.6	559	3,432	160.3
1907.....	933	66,714	184.1	411	63,154	209.3	522	3,500	164.2
1908.....	922	70,841	171.4	407	67,470	190.6	515	3,371	161.0
1909.....	886	72,733	168.4	384	69,518	188.6	502	3,215	154.8
1910.....	881	74,634	170.6	390	71,520	179.1	491	3,114	164.5
1911.....	845	77,410	165.4	387	74,508	169.2	458	2,902	162.2
1912.....	879	79,411	160.0	380	76,407	172.0	499	3,004	152.0

CLASSIFICATION OF EMPLOYEES.

Table 46 shows a classification of the employees of the shipping mines by districts. The number of boys employed in and about the mines is greatly increased over last year.

TABLE 46—*Classification of employees in shipping mines, by districts, with the employees of local mines.*

Districts.	All employees underground.				Employees above ground.			Grand total.
	Miners.	Other employees.	Boys.	Total.	Boys.	Other employees.	Total.	
First.....	3,978	882	93	4,953	7	477	484	5,437
Second.....	3,270	813	121	4,204	.....	325	325	4,529
Third.....	3,364	997	94	4,455	7	409	416	4,871
Fourth.....	2,207	1,016	42	3,265	2	273	275	3,540
Fifth.....	4,128	1,970	112	6,210	2	495	497	6,707
Sixth.....	5,152	2,184	168	7,504	4	618	622	8,126
Seventh.....	2,004	4,598	149	6,751	6	565	571	7,322
Eighth.....	2,389	4,141	142	6,672	7	652	659	7,331
Ninth.....	2,490	2,637	87	5,114	6	481	487	5,701
Tenth.....	2,475	2,037	95	4,607	2	452	454	5,061
Eleventh.....	966	7,309	159	8,434	13	874	887	9,321
Twelfth.....	4,422	3,006	232	7,660	5	796	801	8,461
Total.....	36,845	31,590	1,494	69,929	61	6,417	6,478	76,407
Local mines.....	2,304	97	32	2,433	14	557	571	3,004
The State.....	39,149	31,687	1,526	72,362	75	6,974	7,049	79,411

Table 47 gives the classification of employees each year for the last fourteen. The last line indicates the per cent of increase of 1912 over 1899.

TABLE 47—*Classification of employees in all mines for fourteen years.*

Year.	All employees underground.				Above ground.			Grand total.
	Miners.	Other employees.	Boys.	Total.	Boys.	Others.	Total.	
1899.....	26,449	5,455	1,295	33,199	.....	3,792	3,792	36,991
1900.....	27,875	6,047	1,281	35,203	.....	4,181	4,181	39,384
1901.....	30,829	7,595	1,326	39,750	.....	4,393	4,393	44,143
1902.....	32,875	7,273	1,397	41,518	.....	4,487	4,487	46,005
1903.....	34,904	8,526	1,276	44,703	.....	5,111	5,111	49,814
1904.....	37,987	9,812	1,562	49,361	.....	5,413	5,413	54,774
1905.....	41,202	10,694	1,540	53,436	.....	5,794	5,794	59,230
1906.....	42,920	11,605	1,499	56,024	.....	6,259	6,259	62,283
1907.....	45,498	13,026	1,595	60,119	.....	6,596	6,596	66,714
1908.....	48,931	13,929	1,564	64,424	.....	6,417	6,417	70,841
1909.....	50,834	13,788	1,752	66,374	71	6,288	6,359	72,733
1910.....	39,069	28,137	1,154	68,360	47	6,227	6,274	74,634
1911.....	39,912	30,052	1,009	70,973	71	6,366	6,437	77,410
1912.....	39,149	31,687	1,526	72,362	75	6,974	7,049	79,411
Per cent increase	48.02	499.2	17.7	118.0	.....	83.9	85.9	114.7

Table 48 shows a classification by occupation of all the employees of of the mines, the number of employed in each occupation and the total of tons produced

TABLE 48—*Classification of employees, and the total number of men operation during the year, and*

GRUNDY COUNTY—

Number.	Name of operator.	Postoffice. address or location of mine.	Number of employees				
			Cagers.	Driv- ers.	Labor- ers.	Load- ers.	Ma- chine- men.
1	Chi., W. & V. Coal Co., No. 1.....	So. Wilmington..	3	33	18	.....	.....
2	Big Four Wilmington C. Co.	Coal City.....	3	19	14	.....	.....
3	Chi., W. & V. Coal Co., No. 3.....	So. Wilmington..	2	14	11	.....	.....
4	Wilmington Star Coal Co.	Coal City.....	2	16	.....	.....	.....
5	Big Four Wilmington Coal Co., No. 5..	Carbon Hill.....	4	14	.....	.....	.....
6	Wilmington Star Coal Co., No. 6.....	Coal City.....	2	10	.....	.....	.....
Total.....			16	106	43	.....	.....

LA SALLE COUNTY—

1	Oglesby Coal Co.	Oglesby.....	5	33	30	.....	.....
2	LaSalle Co. C. C. Co., No. 6	LaSalle.....	3	17	48	2	.....
3	LaSalle Co. C. C. Co., No. 5	do.....	3	29	31	6	.....
4	LaSalle Co. C. C. Co., LaSalle	do.....	2	34	37	5	.....
5	Chi., W. & V. Coal Co., No. 3	Streator.....	2	25	10	.....	.....
6	Chi., W. & V. Coal Co., No. 2	do.....	3	24	20	.....	.....
7	LaSalle Co. C. C. Co., Union	LaSalle.....	2	20	30	4	.....
8	Illinois Zinc Co.	Peru.....	.....	21	27	.....	.....
9	Harrison Coal Co.	Streator.....	2	10	1	.....	.....
10	Acme Coal Co.	do.....	3	7	4	.....	.....
11	Cahill Coal Co.	Peru.....	2	16	15	.....	.....
12	Rutland Coal Co.	Rutland.....	1	8	4	.....	.....
13	LaSalle Co. C. C. Co., Rockwell	LaSalle.....	2	10	45	4	.....
14	Spicer Coal Co.	Marseilles.....	1	1	2	.....	.....
15	Wilfred Coal Co.	Seneca.....	1	1
Total.....			32	256	304	21

LIVINGSTON COUNTY—

1	Fairbury Coal Co.	Fairbury.....	1	2	4
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WILL COUNTY—

1	Wilm. Coal Mining & Mfg. Co.	Torino.....	2	15	5
2	Murphy, Linskey & Kasher C. Co.	Braidwood.....	2	8	10
Total.....			4	23	15	.....	.....
Total First District.....			53	387	366	22	.....

the shipping mines and gives the names of the operator, the location number. The number of days each mine was operated and the number is also shown.

employed in shipping mines, with the number of days each mine was in the total tons produced—1912.

FIRST DISTRICT.

in each occupation.				Total clas- sified.	Number not classified.	Total num- ber employ- ees.	Number of days in operation.	Total tons pro- duced.	Number.
Min- ers.	Timber- men.	Track- men.	Trap- pers.						
291	3	28	.....	376	11	387	194	177,995	1
320	10	4	4	374	31	405	223	168,337	2
251	3	13	2	296	11	307	194	159,805	3
137	.....	2	1	158	42	200	228	86,907	4
163	6	3	.....	190	23	213	201	78,947	5
104	.....	2	.....	118	31	149	228	70,615	6
1,266	22	52	7	1,512	149	1,661	211	742,606	

FIRST DISTRICT.

301	2	4	1	376	67	443	233	205,737	1
322	3	2	5	402	38	440	220	205,374	2
303	3	3	6	384	.....	384	206	168,396	3
265	2	2	3	350	.....	350	230	145,279	4
153	5	6	4	205	10	215	256	140,802	5
182	3	4	3	239	20	259	200	122,978	6
177	2	3	2	240	.....	240	194	99,036	7
104	5	2	7	166	24	190	267	75,585	8
120	1	1	.....	135	15	150	232	74,668	9
75	1	2	2	94	16	110	184	56,314	10
95	3	1	1	133	10	143	216	49,270	11
73	.....	1	1	88	15	103	222	40,666	12
143	1	1	.....	206	13	219	21	9,687	13
28	.....	.....	.....	32	8	40	145	8,869	14
16	.....	.....	.....	18	15	33	104	1,938	15
2,357	31	32	35	3,068	251	3,319	197	1,404,599	

FIRST DISTRICT.

30	2	39	6	45	216	29,682	1
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FIRST DISTRICT.

195	5	2	1	225	25	250	219	102,662	1
130	7	2	1	160	2	162	218	71,781	2
325	12	4	2	385	27	412	219	174,443	
3,977	67	88	44	5,004	433	5,437	202	2,351,330	

Table 48—

BUREAU COUNTY—

Number.	Name of operator.	Postoffice address or location of mine.	Number of employees				
			Cagers.	Drivers.	Laborers.	Loaders.	Machine-men.
1	Spring Valley Coal Co., No. 5.....	Dalzell.....	4	44	48	.....	.....
2	Spring Valley Coal Co., No. 3.....	Spring Valley.....	2	38	43	.....	.....
3	Spring Valley Coal Co., No. 1.....	do.....	2	37	52	.....	.....
4	Illinois 3d Vein Coal Co., No. 1.....	Ladd.....	3	36	70	.....	.....
5	St. Paul Coal Co., No. 2.....	Cherry.....	3	14	54	.....	.....
6	Spring Valley Coal Co., No. 4.....	Seatonville.....	5	34	52	.....	.....
7	Marquette 3d Vein Coal Co., No. 1.....	Marquette.....	4	30	26
Total.....			23	233	345

HENRY COUNTY—

1	Kewanee Coal Co.....	Kewanee.....	2	8
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MERCER COUNTY—

1	Coal Valley Mining Co., No. 2.....	Sherrard.....	3	18	18
2	Coal Valley Mining Co., No. 3.....	Mathersville.....	4	15	2
3	Alden Coal Co., No. 7.....	do.....	4	12	14	.....	.....
Total.....			11	45	34

ROCK ISLAND COUNTY—

1	Central Illinois Fuel Co.....	Coal Valley.....	3	1	4
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STARK COUNTY—

1	Wyoming Mining Co.....	Wyoming.....	1	2
Total Second District.....			37	291	370	4

MARSHALL COUNTY—

1	Toluca Coal Co.....	Toluca.....	6	38	.....	.....	.....
2	Wenona Coal Co.....	Wenona.....	3	17	38	.....	.....
3	Illinois Valley Coal Co., No. 1.....	Sparland.....	.....	5	5	.....	.....
4	Illinois Valley Coal Co., No. 2.....	do.....	.....	3	3	15	10
5	Fulton Co. Coal Co.....	do.....	1	3	.....	.....	.....
Total.....			10	66	46	15	10

Continued.

SECOND DISTRICT.

in each occupation.				Total clas- sified.	Number not classified.	Total num- ber employ- ees.	Number of days in operation.	Total tons pro- duced.	Number.
Min- ers.	Timber- men.	Track- men.	Trap- pers.						
518	8	4	14	640	45	685	223	316,788	1
486	4	4	16	593	61	654	196	259,021	2
543	4	4	17	659	47	706	206	252,853	3
395	8	4	19	535	35	570	235	238,549	4
302	6	2	2	383	19	402	277	228,369	5
374	3	3	12	483	41	524	232	220,037	6
260	4	3	9	335	25	360	210	148,475	7
2,878	37	24	88	3,628	273	3,901	226	1,664,092	

SECOND DISTRICT.

65	2	1	68	17	95	179	42,995	1
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SECOND DISTRICT.

92	2	3	136	39	175	189	111,800	1
89	1	3	115	27	142	157	105,617	2
104	2	3	142	12	154	163	100,653	3
285	5	9	393	78	471	170	318,070	

SECOND DISTRICT.

15	1	24	5	29	233	13,040	1
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SECOND DISTRICT.

27	1	31	2	33	219	13,326	1
3,270	45	35	92	4,144	385	4,529	109	2,051,523	

THIRD DISTRICT.

448	5	7	14	518	135	653	266	257,473	1
180	2	2	1	243	7	250	232	121,106	2
40	1	1	.....	52	5	57	197	37,615	3
4	1	1	.....	37	5	42	211	16,653	4
25	1	1	.....	31	5	36	185	8,884	5
697	10	12	15	881	157	1,038	218	441,731	

Table 48—

MENARD COUNTY—

Number.	Name of operator.	Postoffice address or location of mine.	Number of employees				
			Cagers.	Drivers.	Laborers.	Loaders.	Machinemen.
1	Wabash Coal Co.	Athens.	2	13	2	.....	.....
2	Tallula Coal Co.	Tallula.	1	6	1	.....	.....
3	So. Mountain Coal Co.	Petersburg.	2	6	.....	.....	.....
4	Greenview Mining Co.	Greenview.	1	4	1	.....	.....
Total.			6	29	4	.....	.....

PEORIA COUNTY—

1	Clark Coal & Coke Co.	Peoria.	4	15	49	.....	.....
2	Crescent Coal Co.	do. ....	.....	10	.....	.....	.....
3	Deming & Cruikshank.	S. Bartonville.	2	8	4	.....	8
4	Newsam Bros.	Kingston Mines.	1	8	10	.....	.....
5	Wolschlog Cooperative C. Co.	Peoria. ....	.....	4	6	4	.....
6	Applegate & Lewis Coal Co.	Hanna City.	1	7	11	49	8
7	Brewster & Evans Co.	Peoria.	1	6	6	.....	.....
8	Olympia Coal Mining Co.	Edwards. ....	.....	6	.....	.....	.....
9	Collier Cooperative Coal Co.	Bartonville.	1	4	5	.....	.....
10	Mapleton Coal Co.	Mapleton. ....	.....	6	.....	.....	.....
11	Warsaw Coal Co.	Edwards. ....	.....	3	5	.....	.....
12	Lancaster Ldg. C. & Trans. Co.	Kingston Mines. ....	.....	6	6	.....	.....
13	Isaac Wanthing & Co.	Peoria.	4	4	.....	.....	.....
14	German Coal Co.	Mapleton. ....	.....	1	.....	.....	2
Total.			10	88	102	53	18

PUTNAM COUNTY—

1	St. Paul Coal Co.	Granville.	2	3	50	.....	.....
2	B. F. Berry Coal Co.	Taft.	3	35	.....	.....	.....
Total.			5	38	50	.....	.....

TAZEWELL COUNTY—

1	Tazewell Coal Co.	Pekin.	2	13	.....	90	20
2	Eastern Coal Co.	Peoria.	1	4	4	.....	.....
3	Ubben Coal Co.	Pekin.	1	3	2	.....	.....
4	Champion Coal Co.	do.	1	2	1	.....	.....
5	Chas. J. Off.	Peoria.	1	5	6	.....	.....
Total.			6	27	13	90	20

WOODFORD COUNTY—

1	Roanoke Coal Co.	Roanoke.	2	18	24	.....	.....
2	Minonk Coal Co.	Minonk.	3	16	.....	.....	.....
Total.			6	34	24	.....	.....
Total Third District.			43	282	239	158	48

Continued.

THIRD DISTRICT.

in each occupation.				Total clas- sified.	Number not classified.	Total num- ber employ- ees.	Number of days in operation.	Total tons pro- duced.	Number.
Min- ers.	Timber- men.	Track- men.	Trap- pers.						
85	8	6	2	118	12	130	140	68,551	1
47	2	1	1	59	9	68	200	47,712	2
58	4	2	1	73	13	86	164	38,950	3
32	2	2	-----	42	3	45	252	34,022	4
222	16	11	4	292	37	329	189	189,235	

THIRD DISTRICT.

199	3	8	2	280	-----	280	228	253,414	1
190	2	4	2	208	40	248	215	180,325	2
85	3	3	3	116	19	135	230	109,648	3
93	4	2	-----	118	10	128	246	108,233	4
64	-----	2	2	82	9	91	225	87,841	5
-----	4	4	1	85	6	91	197	51,503	6
42	1	1	1	58	13	71	184	49,946	7
67	2	2	1	78	9	87	185	42,900	8
30	1	-----	1	42	-----	42	197	38,220	9
50	1	1	-----	58	-----	58	143	24,221	10
28	-----	1	-----	37	5	42	180	22,312	11
30	-----	2	-----	44	3	47	221	21,402	12
35	1	1	-----	41	6	47	194	20,972	13
14	-----	1	-----	18	1	19	226	15,214	14
927	22	32	13	1,265	121	1,386	205	1,026,151	

THIRD DISTRICT.

617	6	5	3	686	88	774	258	413,625	1
445	2	2	8	495	85	580	229	302,906	2
1,062	8	7	11	1,181	173	1,354	244	715,531	

THIRD DISTRICT.

-----	3	3	1	132	23	155	250	126,206	1
41	1	1	-----	52	-----	52	231	34,912	2
35	1	1	1	44	2	46	205	26,930	3
23	-----	-----	-----	27	2	29	189	14,000	4
40	1	1	-----	54	5	59	52	7,754	5
139	6	6	2	309	32	341	185	209,802	

THIRD DISTRICT.

203	2	2	7	258	8	266	252	122,552	1
114	2	2	3	141	16	157	173	61,344	2
317	4	4	10	399	24	423	212	183,896	
3,364	66	72	55	4,327	544	4,871	205	2,767,346	

Table 48—

FULTON COUNTY—

Number.	Name of operator.	Postoffice. address or location of mine.	Number of employees				
			Cagers.	Driv- ers.	Labor- ers.	Load- ers.	Ma- chine- men.
1	Maplewood Colliery Co., No. 2	Farmington.....	8	28	25		
2	Big Creek Coal Co., No. 2	St. David.....		20	14	152	24
3	Monmouth Coal Co.	Brereton.....	3	25	19		
4	Big Creek Coal Co., No. 4.....	Dunfermline.....	2	20	10	130	16
5	Alden Coal Co., No. 6.....	Norris.....	2	17	17		
6	Canton Coal Mining Co.....	Canton.....	3	15			
7	Norris Coal Mining Co.....	Norris.....	4	18	26		
8	Eagle Mining Co.....	Canton.....	2	10	5		
9	Simmons Coal Co.....	do.....	2	19	10		
10	Star Coal Co., No. 1.....	Cuba.....		12			
11	Maplewood Coal Co., No. 1.....	Farmington.....	4	9	8		
12	Alden Coal Co., No. 5.....	do.....	3	11	11		
13	National Coal Mining Co.....	do.....	2	11	1		
14	Star Coal Co., No. 3.....	Cuba.....	2	7	2		
15	Star Coal Co., No. 2.....	do.....		6	4		
16	Silver Creek Colliery Co.....	Farmington.....	2	5	1	16	4
17	Star Coal Co., No. 1.....	Fiatt.....	1	8	5		
18	Spoon River Coal Co.....	Mayton.....	1	8	2		
19	Coal Creek Mining Co.....	Fairview.....		2			
20	Big Creek Coal Co., No. 3.....	Cuba.....	1	7	3		
Total.....			42	258	163	298	44
Total Fourth District.....			42	258	163	298	44

CHRISTIAN COUNTY—

1	Christian Co. Coal Co.....	Taylorville.....	2	34			
2	Springfield Coal Co., No. 6.....	do.....	1	19	29		
3	Penwell Coal Mining Co.....	Pana.....	2	13	29		
4	Pana Coal Co., No. 1.....	do.....	2	12	10		
5	Stonington Coal Co.....	Stonington.....	4	31			28
6	Smith-Lohr Coal Mining Co.....	Pana.....	2	10	24		
7	Assumption Coal Mining Co.....	Assumption.....	2	8	27		
8	Pana Coal Co., No. 2.....	Pana.....	2	8	8		
Total.....			17	135	127		28

MACON COUNTY—

1	Manufacturers & Consumers Coal Co.....	Decatur.....	2	12	23		
2	Decatur Coal Co., No. 2.....	do.....	2	8	14		
3	Blue Mound Coal Co.....	do.....	2	6	2		
4	Decatur Coal Co., Niantic.....	do.....	1	6	2		
5	Decatur Coal Co., No. 1.....	do.....	2	5	7		
Total.....			9	37	48		

MOULTRIE COUNTY—

1	Lovington Coal Mining Co.....	Lovington.....	1	5	1		
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Continued.

FOURTH DISTRICT.

in each occupation.				Total clas- sified.	Number not classified.	Total num- ber employ- ees.	Number of days in operation.	Total tons pro- duced.	Number.
Min- ers.	Timber- men.	Track- men.	Trap- pers.						
250	6	8	5	330	40	370	217	303,500	1
90	6	6	8	320	41	361	230	271,729	2
200	7	9	8	271	21	292	171	206,430	3
41	4	4	6	233	25	258	195	190,460	4
160	2	7	2	207	28	235	184	166,179	5
140	4	4	4	170	23	193	226	158,817	6
180	4	4	4	240	18	258	186	156,331	7
120	3	2	3	145	15	160	232	132,360	8
110	4	4	-----	149	13	162	205	126,463	9
160	2	5	3	182	10	192	194	101,595	10
105	4	4	3	137	15	152	199	85,980	11
115	2	6	2	150	17	167	168	84,829	12
91	-----	2	1	108	11	119	193	73,471	13
85	2	5	1	104	6	110	174	69,109	14
70	-----	3	2	85	5	90	146	68,558	15
108	2	3	-----	141	11	152	220	48,335	16
80	-----	4	2	100	10	110	106	39,113	17
40	-----	1	1	53	6	59	169	27,444	18
17	-----	1	-----	20	2	22	200	13,071	19
45	1	2	1	60	18	78	42	9,984	20
2,207	53	84	56	3,205	335	3,540	183	2,333,758	
2,207	53	84	56	3,205	335	3,540	183	2,333,758	

FIFTH DISTRICT.

280	4	9	8	337	56	393	153	302,278	1
221	6	8	7	291	16	307	183	235,220	2
185	5	2	4	240	20	260	149	190,104	3
196	2	2	8	232	25	257	167	185,588	4
130	3	6	9	211	15	226	128	175,516	5
184	4	4	4	232	8	240	116	134,885	6
111	3	2	5	158	-----	158	199	75,265	7
166	2	2	5	193	24	217	53	41,647	8
1,473	29	35	50	1,894	164	2,058	144	1,340,503	

FIFTH DISTRICT.

179	1	3	2	222	22	244	229	117,573	1
100	4	5	1	134	8	142	184	53,904	2
56	2	2	-----	70	6	76	140	42,441	3
44	-----	2	1	56	5	61	138	39,742	4
48	-----	3	1	66	8	74	138	17,966	5
427	7	15	5	548	49	597	166	271,626	

FIFTH DISTRICT.

48	-----	1	-----	56	12	68	229	54,162	1
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Table 48—

SHELBY COUNTY—

Number.	Name of operator.	Postoffice address or location of mine.	Number of employees				
			Cagers.	Drivers.	Laborers.	Loaders.	Machinemen.
1	Century Coal Co.....	Tower Hill.....	2	8	16	.....	.....
2	Moweaqua C. M. & Mfg. Co.....	Moweaqua.....	2	7	17	.....	14
Total.....			4	15	33	.....	14

VERMILION COUNTY—

1	Bunsen Coal Co., Ver.....	Westville.....	3	30	139	151	21
2	Bunsen Coal Co., No. 4.....	do.....	3	31	108	.....	.....
3	Dering Coal Co., No. 2.....	do.....	2	20	70	.....	.....
4	Bunsen Coal Co., No. 2.....	do.....	3	17	65	67	10
5	Dering Coal Co., No. 3.....	Steelton.....	2	18	70	.....	.....
6	Bunsen Coal Co., No. 3.....	Westville.....	3	15	46	101	16
7	Dering Coal Co., No. 4.....	Steelton.....	2	19	35	.....	.....
8	Electric Coal Co.....	Danville.....	3	6	.....	.....	.....
9	Danville Col. Co.....	Catlin.....	2	11	12	.....	.....
10	Tilton Coal Co.....	Danville.....	2	4	4	.....	.....
11	Mission Mining Co., No. 1.....	do.....	.....	.....	.....	60	8
12	Black Diamond Coal Co.,.....	do.....	1	5	2	.....	.....
13	Fairmount Coal Co.....	Fairmount.....	1	6	2	.....	.....
14	Bushong Bros.....	Muncie.....	2	5	3	.....	.....
15	Sharon C. & B. Co.....	Georgetown.....	1	2	.....	.....	.....
16	Traer Coal Co.....	Danville.....	.....	3	1	.....	2
17	Missionfield Coal Co., No. 2.....	do.....	.....	1	3	.....	.....
18	Missionfield Coal Co., No. 3.....	do.....	.....	1	.....	7	2
Total.....			30	196	560	386	59
Total Fifth District.....			61	388	769	386	101

LOGAN COUNTY—

1	Latham Coal Co.....	Lincoln.....	4	24	20	.....	.....
2	Citizens Coal Mining Co.....	do.....	2	14	.....	.....	.....
3	Lincoln Mining Co.....	do.....	2	6	3	3	3
4	Mt. Pulaski Col. Co.....	Mt. Pulaski.....	.....	2	1	.....	.....
Total.....			8	48	24	3	3

McLEAN COUNTY—

1	McLean County Coal Co.....	Bloomington.....	2	10	2	.....	.....
2	Colfax Coop. Co.....	Colfax.....	1	3	.....	.....	.....
Total.....			3	13	2	.....	.....

Continued.

FIFTH DISTRICT.

in each occupation.				Total clas- sified.	Number not classified.	Total num- ber employ- ees.	Number of days in operation.	Total tons pro- duced.	Number.
Min- ers.	Timber- men.	Track- men.	Trap- pers.						
63	4	4	3	100	7	107	120	61,409	1
56	4	2	2	104	-----	104	123	53,426	
119	8	6	5	204	7	211	122	114,835	2

FIFTH DISTRICT.

239	14	7	14	618	66	684	262	640,664	1
410	12	8	9	581	62	643	263	561,169	2
266	10	4	8	380	5	385	206	326,947	3
142	8	5	8	325	50	375	259	302,724	4
262	14	8	8	382	3	385	201	301,103	5
59	65	4	4	253	43	296	265	297,587	6
159	10	4	8	237	5	242	201	202,655	7
180	3	4	3	199	-----	199	273	201,857	8
108	6	2	3	144	4	148	227	115,176	9
63	3	1	-----	77	3	80	219	73,941	10
-----	-----	-----	-----	70	-----	70	232	53,248	11
48	2	2	-----	60	5	65	215	42,370	12
48	2	2	-----	61	7	68	181	38,250	13
30	4	2	-----	46	4	50	160	28,819	14
16	1	-----	-----	20	6	26	195	17,715	15
14	1	1	-----	22	3	25	188	10,775	16
8	-----	-----	-----	12	-----	12	162	3,576	17
9	-----	-----	-----	19	1	20	131	2,738	18
2,061	95	54	65	3,506	267	3,773	213	3,221,314	
4,128	139	111	125	6,208	499	6,707	185	5,002,440	

SIXTH DISTRICT.

247	10	8	11	324	29	353	203	227,586	1
86	4	2	2	110	30	140	210	95,971	2
90	3	3	5	120	30	150	156	91,000	3
25	1	1	-----	30	4	34	170	14,998	4
448	18	14	18	584	93	677	185	429,555	

SIXTH DISTRICT.

119	4	4	1	142	26	168	220	77,153	1
17	2	1	-----	24	8	32	232	19,745	2
136	6	5	1	166	34	200	226	96,898	

Table 48—

SANGAMON COUNTY—

Number.	Name of operator.	Postoffice address or location of mine.	Number of employees				
			Cagers.	Drivers.	Laborers.	Loaders.	Machine-men.
1	C. W. & V. C. Co., No. 1.....	Thayer.....	4	35	25	267	48
2	Jones-Adams Coal Co.	Springfield.....	4	26	37	.....	.....
3	Springfield C. M. Co., No. 2.....	Riverton.....	4	16	23	.....	.....
4	Illinois-Midland Coal Co., No. 5.....	Pawnee.....	4	20	35	.....	.....
5	Madison Coal Corp., No. 6.....	Divernon.....	6	32	22	285	54
6	Black Diamond Coal Co.....	Auburn.....	5	12	7	.....	.....
7	Woodside Coal Co.....	Springfield.....	3	17	36	.....	.....
8	Illinois-Midland Coal Co., No. 6.....	Sherman.....	4	22	6	.....	.....
9	Capitol Coal Co., No. 2.....	Springfield.....	4	18	26	1	.....
10	Chicago-Springfield Coal Co.....	do.....	4	25	7	.....	.....
11	Sangamon Coal Co.....	do.....	2	23	5	.....	.....
12	Springfield C. M. Co., No. 5.....	do.....	2	26	29	.....	.....
13	Cora Coal Co.....	do.....	2	14	6	.....	.....
14	Auburn & Alton Coal Co.....	Auburn.....	4	16	.....	.....	.....
15	T. J. O'Gara.....	Springfield.....	2	16	11	.....	.....
16	West End Coal Co.....	do.....	1	12	3	2	.....
17	Williamsville Coal Co.....	Selbytown.....	2	13	2	.....	.....
18	Cantrall Coö. Coal Co., Cantrall.....	Cantrall.....	2	10	3	.....	.....
19	Springfield Coö. Coal Co.....	Springfield.....	4	9	8	.....	.....
20	Lefton Coal Co.....	Auburn.....	4	12	.....	.....	.....
21	Wabash Coal Co.....	Dawson.....	2	12	.....	.....	.....
22	Citizens Coal Mining Co., A.....	Springfield.....	2	16	.....	.....	.....
23	Tuxhorn Coal Co.....	do.....	4	17	10	.....	.....
24	Barclay Coal & Mining Co.....	Barclay.....	2	11	3	.....	.....
25	Spring Creek Coal Co.....	Springfield.....	3	10	2	.....	.....
26	Dickerson Coal Co.....	do.....	1	10	4	.....	.....
27	Cantrall Coö. Coal Co., Republic.....	do.....	3	12	9	.....	.....
28	Spaulding Coal Co.....	Spaulding.....	2	16	.....	.....	.....
29	Citizens Coal Mining Co., B.....	Springfield.....	2	16	.....	.....	.....
Total.....			88	494	319	555	102
Total Sixth District.....			99	555	345	558	105

MACOUPIN COUNTY—

1	Superior Coal Co., 3.....	Gillespie.....	4	30	.....	330	92
2	Superior Coal Co., 2.....	do.....	4	30	.....	298	90
3	Superior Coal Co., 1.....	do.....	4	26	.....	294	96
4	Consolidated Coal Co., 14.....	Staunton.....	9	25	25	243	80
5	Consolidated Coal Co., 15.....	Mt. Olive.....	6	22	20	210	60
6	Royal Colliery Co.....	Viriden.....	3	23	46	52	.....
7	Girard Collieries Co.....	Girard.....	3	19	3	.....	.....
8	Madison Coal Corp.....	Mt. Olive.....	3	18	22	136	40
9	Vivian Collieries Co.....	Greenridge.....	2	16	21	.....	.....
10	Greenridge Coal Co.....	Viriden.....	2	17	50	.....	26
11	Consolidated Coal Co., 8.....	Mt. Olive.....	2	11	13	95	28
12	Carlinville Coal Co.....	Carlinville.....	2	11	.....	.....	.....
13	Illinois Central Fuel Co.....	Nilwood.....	2	12	21	.....	.....
Total.....			46	260	221	1,658	512

Continued.

SIXTH DISTRICT.

in each occupation.				Total clas- sified.	Number not classified.	Total num- ber employ- ees.	Number of days in operation.	Total tons pro- duced.	Number.
Min- ers.	Timber- men.	Track- men.	Trap- pers.						
.....	4	11	21	415	110	525	199	486,140	1
370	8	9	10	464	45	509	208	472,380	2
311	8	10	10	382	16	398	192	388,937	3
354	5	10	8	436	25	461	213	382,588	4
.....	24	30	15	468	46	514	132	354,650	5
225	6	8	3	266	16	282	194	311,600	6
260	8	8	6	338	9	347	200	269,354	7
295	8	9	6	350	64	414	139	265,683	8
210	5	15	4	283	22	305	212	222,792	9
200	4	4	6	250	14	264	151	199,478	10
185	2	4	4	225	24	249	203	197,301	11
205	8	8	9	287	11	298	154	191,634	12
165	3	6	2	198	19	217	163	179,609	13
150	2	2	3	177	10	187	185	127,924	14
125	6	6	.....	166	9	175	202	121,344	15
162	2	2	2	186	15	201	132	119,261	16
95	7	6	5	130	12	142	169	118,941	17
109	5	7	4	140	19	159	209	117,291	18
96	2	2	2	123	15	138	206	115,300	19
160	2	1	2	181	15	196	173	112,648	20
91	4	3	4	116	24	140	200	105,191	21
91	2	1	1	113	18	131	208	93,298	22
172	4	4	2	213	4	217	124	88,066	23
95	2	2	2	117	23	140	138	81,658	24
83	4	2	1	105	8	113	124	75,453	25
87	1	1	1	105	21	126	162	74,863	26
84	2	4	3	117	13	130	163	69,779	27
95	2	2	3	120	11	131	91	37,488	28
93	5	3	1	120	20	140	45	21,414	29
4,568	145	180	140	6,591	658	7,249	169	5,402,065	
5,152	169	199	159	7,341	785	8,126	174	5,928,518	

SEVENTH DISTRICT.

.....	10	26	17	509	92	601	229	837,979	1
.....	10	30	18	480	73	553	228	791,835	2
.....	10	22	13	465	97	562	225	673,717	3
.....	9	20	9	420	80	500	199	534,485	4
.....	4	16	12	350	65	415	198	460,116	5
200	13	5	6	348	32	380	186	362,815	6
260	4	4	7	300	20	320	166	263,512	7
.....	16	7	11	253	46	299	186	252,885	8
190	5	8	8	250	24	274	228	226,500	9
158	4	8	6	271	16	287	161	212,096	10
.....	8	6	6	169	40	209	182	166,893	11
79	2	2	.....	96	12	108	195	76,939	12
89	4	4	2	134	8	142	61	30,850	13
976	99	158	115	4,045	605	4,650	188	4,890,622	

Table 48—

MONTGOMERY COUNTY—

Number.	Name of operator.	Postoffice address or location of mine.	Number of employees				
			Cagers.	Drivers.	Laborers.	Loaders.	Machine-men.
1	Shoal Creek Coal Co.	Panama.....	1	18	50	200	68
2	Peabody Coal Co., No. 14.....	Witt.....	2	18	4	.....	.....
3	Montgomery County Coal Co.	Hillsboro.....	10	21	24	315	35
4	Hillsboro Coal Co.	do.....	2	20	42	.....	18
5	Burnwell Coal Co.	Witt.....	2	17	.....	.....	.....
6	Kortkamp Coal Co.	Hillsboro.....	4	25	35	168	24
7	Clover Leaf Mining Co.	Coffeen.....	4	14	4	12	2
8	Peabody Coal Co., No. 10.....	Nokomis.....	2	8	10	37	16
9	Farmersville Coal Co.	Farmersville.....	2	12	6	.....	.....
10	Litchfield Coal Co.	Litchfield.....	2	5	4	.....	.....
Total.....			31	158	179	732	163
Total Seventh District.....			77	418	400	2,380	675

BOND COUNTY—

1	Pocahontas Mining Co.	Pocahontas.....	3	12	.....	.....	.....
2	Northern Coal & Supply Co.	Sorento.....	1	11	8	.....	.....
Total.....			4	23	8	.....	.....

CLINTON COUNTY—

1	Southern Coal & Mining Co., No. 9....	New Baden.....	4	15	8	206	66
2	Breese Trenton Mining Co., E. M.	Breese.....	2	10	16	.....	4
3	Breese Trenton Mining Co., Buxton....	Beckmeyer.....	2	12	18	.....	4
4	North Breese Coal Mining Co.	Breese.....	6	14	9	42	8
5	Consolidated Coal Co.	do.....	3	9	15	.....	.....
Total.....			18	60	666	248	82

MADISON COUNTY—

1	New Staunton Coal Co.	Livingston.....	2	32	10	404	62
2	Mt. Olive & Staunton Coal Co., No. 2..	Staunton.....	4	30	15	343	58
3	Donk Bros. C. & C. Co., No. 2.....	Maryville.....	9	26	50	.....	75
4	Mt. Olive & Staunton Coal Co., No. 1..	Staunton.....	5	16	6	209	32
5	Lumaghi Coal Co., No. 2.....	Collinsville.....	3	35	40	212	56
6	Donk Bros. C. & C. Co., No. 1.....	do.....	7	18	44	.....	.....
7	Donk Bros. C. & C. Co., No. 3.....	Troy.....	5	15	35	.....	.....
8	Madison Coal Corp., No. 2.....	Glen Carbon.....	4	10	15	136	38
9	Madison Coal Corp., No. 4.....	do.....	2	10	15	137	36
10	Kerns-Domewald Coal Co.	Worden.....	1	7	12	98	14
11	Lumaghi Coal Co., No. 3.....	Collinsville.....	2	11	8	72	13
12	De Camp Coal Co.	Staunton.....	1	14	2	.....	18
13	City Coal Co.	Edwardsville.....	1	5	3	38	10
14	Edwardsville Home Trade Coal Co.	do.....	1	3	2	.....	.....
15	Brookside Coal Co.	Troy.....	1	4	4	.....	.....
16	W. S. Walker.....	Edwardsville.....	1	3	4	18	4
Total.....			49	239	265	1,667	416

Continued.

SEVENTH DISTRICT.

in each occupation.				Total clas- sified.	Number not classified.	Total num- ber employ- ees.	Number of days in operation.	Total tons pro- duced.	Number.
Min- ers.	Timber- men.	Track- men.	Trap- pers.						
-----	12	12	15	376	50	426	222	407,025	1
300	10	7	4	345	45	390	201	366,937	2
-----	15	12	6	438	-----	438	175	329,222	3
126	4	4	2	218	-----	218	228	293,619	4
245	8	4	5	281	52	333	145	277,015	5
-----	6	6	6	274	6	280	167	222,256	6
148	8	5	3	200	15	215	171	134,247	7
45	-----	2	3	123	14	137	179	111,480	8
114	4	4	4	146	14	160	98	94,490	9
50	2	1	1	65	10	75	180	44,050	10
1,028	69	57	49	2,466	206	2,672	177	2,280,341	
2,004	168	215	164	6,511	811	7,322	183	7,170,963	

EIGHTH DISTRICT.

143	2	2	4	166	20	186	153	131,527	1
90	2	3	3	118	12	130	166	51,653	2
233	4	5	7	284	32	316	160	183,180	

EIGHTH DISTRICT.

-----	6	12	7	324	58	382	200	352,301	1
170	4	4	4	214	29	243	212	230,060	2
185	5	5	5	237	29	266	152	171,752	3
105	3	8	1	196	33	229	150	163,726	4
145	3	3	2	180	15	195	113	95,143	5
605	21	32	19	1,151	164	1,315	165	1,012,982	

EIGHTH DISTRICT.

-----	2	16	14	542	80	622	195	737,632	1
-----	2	16	19	487	73	560	148	506,044	2
225	30	-----	3	418	32	450	176	308,904	3
-----	4	9	16	297	46	343	181	311,682	4
-----	16	14	11	387	43	430	107	238,140	5
180	1	10	4	264	36	300	139	225,857	6
184	24	5	2	270	77	347	187	209,076	7
-----	10	4	6	223	50	273	157	199,204	8
-----	8	4	4	216	49	265	154	178,713	9
-----	4	7	3	146	17	163	158	122,584	10
13	4	5	5	133	27	160	104	91,671	11
119	1	6	1	162	27	189	101	87,349	12
-----	2	1	2	62	9	71	212	42,442	13
36	-----	1	-----	43	5	48	243	37,997	14
23	2	1	1	36	6	42	188	16,535	15
-----	1	-----	2	33	5	38	90	15,100	16
780	111	99	93	3,719	582	4,301	159	3,400,930	

Table 48—

MARION COUNTY—

Number.	Name of operator.	Postoffice. address or location of mine.	Number of employees				
			Cagers.	Driv- ers.	Labor- ers.	Load- ers.	Ma- chine- men.
1	Marion County Coal Co.	Centralia.	2	21	65	.....	32
2	Centralia Coal Co., No. 2	do.	2	26	8	.....	.....
3	Chicago Sandoval Coal Co., No. 2	Sandoval.	6	26	5	.....	.....
4	Centralia Coal Co., No. 4	Centralia.	3	18	16	.....	.....
5	Odin Coal Co.	Odin.	5	18	.....	132	22
6	Chicago Sandoval Coal Co., No. 1	Sandoval.	3	7	2	.....	.....
Total.			21	116	96	132	54
Total Eighth District.			92	438	435	2,047	552

ST. CLAIR COUNTY—

1	St. Louis & O'Fallon Coal Co., No. 2	E. St. Louis.	4	24	90	280	90
2	Consolidated Coal Co.	Collinsville.	6	23	66	180	64
3	Southern Coal & Mining Co., No. 8	Belleville.	4	20	6	168	28
4	Prairie Coal Co.	do.	4	17	10	.....	.....
5	Southern Coal & Mining Co., No. 7	do.	3	17	6	102	38
6	Joseph Taylor, St. Ellen	O'Fallon.	4	10	6	.....	.....
7	Superior Coal & Mining Co.	Belleville.	2	8	6	.....	20
8	Suburban Coal & Mining Co.	do.	3	12	7	.....	.....
9	Royal Coal & Mining Co.	do.	2	14	7	67	22
10	St. Louis & O'Fallon Coal Co., No. 1	E. St. Louis.	4	20	62	.....	.....
11	Kolb Coal Co.	Mascoutah.	2	6	7	1	.....
12	Breeze Trenton Mining Co.	Trenton.	2	14	8	80	36
13	Joseph Taylor Coal Co., Taylor	O'Fallon.	4	8	4	.....	.....
14	Fullerton Coal Co.	Belleville.	2	7	6	.....	.....
15	Joseph Taylor Coal Co., R. P.	O'Fallon.	4	8	5	.....	.....
16	Kolb Coal Co.	New Athens.	2	6	5	1	.....
17	Borders Coal Co.	Marissa.	3	6	8	.....	.....
18	Pittsburg Mining Co.	Belleville.	1	3	3	.....	.....
19	Johnson Coal Co.	Marissa.	2	4	1	.....	.....
20	Star Coal Co.	Freeburg.	1	3	.....	49	14
21	Missouri and Illinois Coal Co.	Rentchler.	2	4	2	48	8
22	Jones Bros. Coal & Mining Co.	Marissa.	1	4	6	.....	.....
23	International Coal Co.	O'Fallon.	1	7	10	.....	.....
24	Summit Coal & Mining Co.	Belleville.	2	8	6	.....	.....
25	Mulberry Hill Coal Co.	Freeburg.	1	7	3	60	8
26	Dewey Coal & Mining Co.	Belleville.	1	4	.....	.....	.....
27	Wilharmel Coal & Coke Co.	do.	1	7	2	.....	.....
28	Egyptian Coal & Mining Co.	Marissa.	3	8	3	.....	.....
29	Southern Coal & Mining Co., No. 1	Belleville.	2	8	6	63	12
30	Glendale Coal & Mining Co.	do.	1	4	6	.....	.....
31	Groom Coal Co.	do.	1	4	.....	.....	.....
32	Missouri and Ill. Coal Co., Wilderman.	do.	1	7	1	47	4
33	L. Senior.	do.	1	2	1	.....	.....
34	Cluley Miller Coal Co.	Caseyville.	1	3	2	.....	.....
35	Kolb Coal Co.	Birkner.	1	4	3	1	.....
36	International Coal & Mining Co.	O'Fallon.	1	6	8	36	6
37	Gauch Coal & Mining Co.	Rentchler.	1	4	2	.....	.....
38	Southern Coal & Mining Co., No. 3	Belleville.	2	5	2	.....	.....
39	Tirre Coal & Mining Co.	Lenzburg.	2	4	5	.....	.....
40	Highland Coal Co.	Belleville. ....	.....	2	.....	.....	.....
41	F. Sargent & Sons.	do.	1	2	.....	.....	.....
42	Maul Coal & Mining Co.	do.	1	5	1	.....	.....
43	Southern Coal & Mining Co., No. 6	do.	1	7	3	.....	.....
44	Vulcan Coal & Mining Co.	do.	2	5	8	.....	.....
45	T. M. Meek Coal Co.	Marissa.	2	4	.....	.....	.....
46	White and Sons.	Belleville.	1	2	.....	.....	.....
47	Reeb Coal Co.	do.	1	.....	.....	.....	.....
48	Southern Coal & Mining Co., No. 4	do.	2	5	2	30	8
49	Kolb Coal Co.	New Athens.	1	4	2	.....	.....

Continued.

EIGHTH DISTRICT.

in each occupation.				Total clas- sified.	Number not classified.	Total num- ber employ- ees.	Number of days in operation.	Total ton: pro- duced.	Number.
Min- ers.	Timber- men.	Track- men.	Trap- pers.						
176	9	8	8	321	9	330	242	357,648	1
210	4	4	7	261	39	300	194	245,901	2
175	2	5	4	223	15	238	229	193,688	3
140	2	4	7	190	26	216	201	188,365	4
70	4	3	7	191	24	215	213	167,138	5
		3	1	86	14	100	153	51,207	6
771	21	27	34	1,272	127	1,399	205	1,203,947	
2,389	157	163	153	6,426	905	7,331	170	5,801,039	

NINTH DISTRICT.

30	4	12	6	570	10	580	229	564,708	1
	6	22		367	5	372	201	516,913	2
	6	8	3	243	40	283	215	331,987	3
215	8	5		259	12	271	232	325,680	4
	2	6	2	176	26	202	233	233,921	5
185	2	5	4	216	22	238	136	180,593	6
62	2	3		103	28	131	206	158,622	7
90		3		110	8	118	229	151,603	8
		4	2	118	11	129	160	131,700	9
280	4	8	2	380	22	402	102	128,706	10
80				96	6	102	337	117,790	11
	16	6	8	170	10	180	136	105,465	12
108	2	2		128	18	146	144	98,046	13
74		1		90	1	91	151	82,283	14
90	2	4	2	115	14	129	125	81,952	15
45		1		60	4	64	235	80,102	16
80		2		99	3	102	109	64,218	17
42				49	6	55	223	56,450	18
60	2	1		70	6	76	130	56,167	19
		2		69	6	75	137	55,461	20
		3		67	7	74	151	51,603	21
60		1		72		72	103	50,649	22
75		2		95	12	107	87	40,780	23
60		2		78	4	82	95	40,532	24
		2		81	5	86	60	40,400	25
38		1		44	4	48	180	40,200	26
52		2	1	65	5	70	86	36,890	27
80	1	2		97	23	120	52	36,407	28
	2	4	2	99	12	111	88	35,670	29
35	1	1		48	7	55	139	29,660	30
25		1		31	4	35	175	29,405	31
		1		61	6	67	152	26,728	32
23				27	5	32	126	25,910	33
30		1		37		37	115	25,584	34
32				41	3	44	147	25,275	35
	2	1	1	61	12	73	162	25,013	36
34		2		43	8	51	108	23,740	37
37	1	1		48	8	56	87	22,836	38
33		1		45	3	48	68	22,414	39
20				22	2	24	220	22,038	40
28				31	3	34	125	21,429	41
26		1		34	3	37	123	19,367	42
80	1	2	1	95	12	107	41	19,004	43
45		2		62	4	66	69	18,259	44
42		1		49	11	60	51	17,875	45
22				25	3	28	107	16,983	46
10				11	1	12	213	14,324	47
	1			49	10	59	54	13,739	48
30		1		37	3	40	77	13,499	49

Table 48—

ST. CLAIR COUNTY—

Number.	Name of operator.	Postoffice address or location of mine.	Number of employees				
			Cagers.	Drivers.	Laborers.	Loaders.	Machine-men.
50	Avery Coal Co.....	Freeburg.....	1	5	4	.....	.....
51	Sunlight Coal Co.....	do.....	1	3	.....	.....	.....
52	New National Coal & Mining Co.....	Belleville.....	1	1	.....	.....	.....
53	Southern Coal & Mining Co., No. 5.....	do.....	.....	1	1	.....	.....
54	Missouri and Illinois Coal Co.....	Freeburg.....	1	3	1	.....	.....
55	Silver Creek Coal Co.....	Mascoutah.....	1	2	3	18	2
56	Egyptian Coal & Mining Co.....	Marissa.....	1	3	2	.....	.....
57	Golden Rule Coal Co.....	Lenzburg.....	.....	1	1	.....	.....
58	Eldmar Coal Co.....	Belleville.....	1	1	3	.....	.....
Total.....			103	386	407	1,241	360
Total Ninth District.....			103	386	407	1,241	360

JACKSON COUNTY—

1	Big Muddy Coal & Iron Co., No. 9.....	Murphysboro.....	.....	.....	.....	.....	.....
2	Muddy Valley Mining Co.....	Hallidayboro.....	5	17	.....	18	.....
3	Big Muddy Coal & Iron Co., Harrison.....	Murphysboro.....	.....	.....	.....	.....	.....
4	Gartside Coal Co.....	do.....	2	14	6	26	12
5	Gus Blair B. M. C. Co., No. 1.....	do.....	1	6	.....	48	16
6	J. B. Kreikemeier.....	DeSoto.....	1	7	2	.....	.....
7	Gus Blair B. M. C. Co., No. 2.....	Murphysboro.....	1	3	2	25	10
Total.....			10	47	10	117	38

JEFFERSON COUNTY—

1	Mt. Vernon Coal Co.....	Mt. Vernon.....	1	3	4
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PERRY COUNTY—

1	Willis Coal & Mining Co., No. 1.....	Willisville.....	1	12	19	136	28
2	Majestic Coal & Coke Co.....	DuQuoin.....
3	Paradise Coal Co.....	do.....	2	18	4	109	9
4	DuQuoin Operating Co.....	do.....	.....	.....	.....	.....	.....
5	Security Coal & Mining Co.....	do.....	2	12	4	105	16
6	Missouri and Illinois Coal Co.....	Willisville.....	3	11	4	90	18
7	Ritchey Coal Co.....	Pinckneyville.....	2	5	2	78	20
8	Brilliant Coal & Coke Co.....	DuQuoin.....	4	10	6	4	2
9	Bald Eagle Mining Co.....	Craig.....	2	8	6	14	9
10	St. Louis and Coulterville Coal Co.....	Coulterville.....	1	5	3	.....	.....
11	Johnson Allen Coal Co.....	Cutter.....	1	5	2	.....	.....
12	Little Muddy Fuel Co.....	Tamaroa.....	2	8	.....	.....	.....
13	Bessmer Coal & Mining Co.....	Pinckneyville.....	2	10	4	.....	.....
14	Bailey Bros. Coal Co., Diamond.....	Sunfield.....	1	3	1	.....	.....
15	Wilson Coal Co.....	Cutler.....	1	2	.....	.....	.....
16	Joe Morris Coal Co.....	DuQuoin.....	1	1	.....	.....	.....
17	Bailey Bros. Coal Co., No. 3.....	Sunfield.....	1	3	.....	.....	.....
18	Strait Coal Co.....	Pinckneyville.....	1	1	.....	.....	.....
19	Orion Coal Co.....	DuQuoin.....	.....	.....	5	.....	.....
Total.....			28	114	60	536	101

Continued.

NINTH DISTRICT--*Concluded.*

in each occupation.				Total clas- sified.	Number not classified.	Total num- ber employ- ees.	Number of days in operation.	Total tons pro- duced.	Number.
Min- ers.	Timber- men.	Track- men.	Trap- pers.						
30	40	2	42	70	12,865	50
26	1	.....	31	3	34	61	10,886	51
10	11	3	14	107	8,992	52
12	14	3	17	88	8,748	53
18	1	.....	24	1	25	71	8,133	54
.....	1	.....	27	3	30	76	7,824	55
20	1	.....	27	3	30	26	4,124	56
12	14	3	17	119	3,042	57
4	9	2	11	105	2,147	58
2,490	65	134	44	5,230	471	5,701	130	4,409,341	
2,490	65	134	44	5,230	471	5,701	130	4,409,341	

TENTH DISTRICT.

152	.....	.....	.....	152	93	245	167	216,445	1
132	4	5	10	191	55	246	139	173,342	2
130	.....	.....	.....	130	81	211	125	114,271	3
18	6	2	3	89	16	105	180	68,977	4
2	1	1	1	76	20	96	197	64,189	5
100	.....	1	1	112	5	117	92	26,749	6
2	1	1	45	6	51	210	23,984	7
536	12	10	15	795	276	1,071	159	687,857	

TENTH DISTRICT.

20	3	2	33	12	45	143	7,958	1
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TENTH DISTRICT.

.....	7	6	209	27	236	218	222,541	1
300	300	90	390	92	176,088	2
50	4	4	6	206	4	210	114	173,789	3
165	.....	.....	.....	165	70	235	132	169,416	4
.....	6	4	3	152	81	233	154	130,575	5
.....	.....	3	3	132	4	136	179	128,712	6
.....	2	2	1	112	10	122	206	92,612	7
90	.....	2	3	121	8	129	150	61,780	8
98	1	1	1	139	10	149	182	57,498	9
50	.....	.....	.....	59	12	71	101	37,192	10
50	.....	.....	.....	58	.....	58	110	37,000	11
68	.....	2	2	83	15	98	61	22,780	12
137	.....	4	1	158	28	186	23	18,002	13
30	.....	1	.....	36	4	40	133	16,531	14
21	.....	.....	.....	24	3	27	175	22,130	15
17	.....	.....	.....	19	3	22	205	11,983	16
18	.....	1	.....	23	2	25	113	10,115	17
6	.....	.....	.....	8	2	10	105	3,846	18
20	.....	.....	.....	25	.....	25	29	2,400	19
1,120	13	31	26	2,029	373	2,402	130	1,394,940	

Table 48—

RANDOLPH COUNTY—

Number.	Name of operator.	Postoffice address or location of mine.	Number of employees				
			Cagers.	Driv- ers.	Labor- ers.	Load- ers.	Ma- chine- men.
1	Willis Coal & Mining Co., No. 6.....	Percy.....	2	10	5	139	26
2	Wilson Bros. Coal Co.....	Sparta.....	2	6	.....	42	6
3	Illinois Fuel Co.....	do.....	2	15	6	.....	14
4	Moffatt Coal Co.....	do.....	2	20	4	75	31
5	Jones Bros. Coal & Mining Co.....	Marissa.....	2	7	10	.....	.....
6	Randolph County Coal Mining Co.....	Coulterville.....	2	6	3	.....	.....
7	Bessemer Coal & Mining Co., No. 1.....	Tilden.....	3	10	3	.....	.....
8	Boyd Coal & Coke Co.....	Sparta.....	2	3	3	.....	.....
9	Bessemer Coal & Mining Co., No. 2.....	Tilden.....	2	9	1	.....	.....
10	West Mine Coal Co.....	Coulterville.....	2	3	2	.....	.....
Total.....			21	89	37	256	77

WASHINGTON COUNTY—

1	Centralia Coal Co.....	Centralia.....	4	1	12	24	8
2	Nicholson Coal Co.....	Nashville.....	1	5	.....	.....	.....
3	Adam Kuhn.....	Du Bois.....	1	4	2	.....	.....
Total.....			6	10	14	24	8
Total Tenth District.....			66	263	125	933	224

FRANKLIN COUNTY—

1	United Coal Mining Co., No. 1.....	Christopher.....	2	10	6	250	40
2	Zeigler District Col. Co.....	do.....	2	15	34	215	34
3	Sesser Coal Co.....	Sesser.....	8	.....	.....	180	54
4	Bell-Zoller Mining Co.....	Zeigler.....	9	.....	88	240	38
5	Benton Coal Co.....	Benton.....	4	20	12	175	32
6	Hart-Williams Coal Co.....	do.....	3	18	87	.....	36
7	W. P. Rend Col. Co.....	Rend.....	4	15	21	150	30
8	Dering Coal Co., No. 11.....	W. Frankfort.....	2	14	20	180	50
9	Franklin Coal & Coke Co.....	Royalton.....	6	12	6	153	34
10	So. Illinois Coal & Coke Co.....	Herrin.....	3	14	8	129	28
11	Ohio Valley Coal Co.....	W. Frankfort.....	3	.....	.....	112	22
12	Dering Coal Co., No. 18.....	do.....	2	9	7	86	41
13	Carroll & Franklin Cos. Coal Co.....	Hanaford.....	3	6	4	75	12
14	United Coal Mining Co., No. 2.....	Christopher.....	5	6	.....	32	8
15	B. M. Carterville Mining Co.....	Royalton.....	2	4	56	2	.....
16	W. Frankfort Coal Co.....	W. Frankfort.....	1	1	.....	.....	.....
Total.....			59	144	349	1,979	459

GALLATIN COUNTY—

1	Gallatin Coal & Coke Co.....	Equality.....	1	5	1	.....	.....
2	Hickory Hill Coal Co.....	do.....	.....	6	2	.....	.....
3	Crescent Coal Co.....	do.....	1	3	.....	14	6
Total.....			2	14	3	14	6

Continued.

TENTH DISTRICT.

in each occupation.				Total clas- sified.	Number not classified.	Total num- ber employ- ees.	Number of days in operation.	Total tons pro- duced.	Number.
Min- ers.	Timber- men.	Track- men.	Trap- pers.						
-----	2	5	4	193	28	221	180	188,779	1
37	-----	4	-----	97	8	105	232	112,312	2
90	1	4	4	136	14	150	132	97,508	3
-----	-----	3	1	136	3	139	143	89,964	4
95	-----	2	1	117	-----	117	122	88,340	5
58	-----	1	1	71	6	77	158	55,006	6
88	1	3	3	111	10	121	47	39,291	7
50	-----	3	-----	61	9	70	191	37,951	8
60	-----	2	1	75	13	88	35	20,311	9
26	-----	1	1	35	4	39	102	15,044	10
504	4	28	16	1,032	95	1,127	134	744,506	

TENTH DISTRICT.

200	4	12	6	271	18	289	83	152,961	1
50	-----	2	-----	58	10	68	148	17,842	2
45	-----	-----	-----	52	7	59	117	17,280	3
295	4	14	6	381	35	416	116	188,083	
2,475	36	85	63	4,270	791	5,061	135	3,023,344	

ELEVENTH DISTRICT.

45	10	22	10	395	97	492	248	524,163	1
45	1	14	8	368	29	397	236	475,386	2
-----	15	14	6	277	66	343	226	424,449	3
-----	6	12	4	397	43	440	208	423,687	4
75	12	16	10	356	44	400	188	382,465	5
278	8	8	10	448	15	463	162	332,350	6
-----	14	7	3	244	51	295	221	267,441	7
-----	6	6	5	283	48	331	169	221,906	8
38	-----	8	5	262	46	308	214	212,112	9
-----	2	6	5	196	19	214	223	206,918	10
-----	-----	4	2	143	60	203	167	197,773	11
-----	6	4	4	159	45	204	164	118,637	12
-----	4	4	3	111	20	131	173	99,540	13
-----	1	9	1	62	32	94	234	69,985	14
65	2	2	2	135	-----	135	174	58,602	15
8	-----	-----	-----	10	12	22	270	11,401	16
554	87	136	78	3,845	627	4,472	205	4,026,815	

ELEVENTH DISTRICT.

40	-----	2	-----	49	1	50	174	28,439	1
40	-----	2	-----	50	3	53	155	19,225	2
-----	1	1	-----	26	6	32	136	15,463	
80	1	5	-----	125	10	135	155	63,127	

Table 48—

SALINE COUNTY—

Number.	Name of operator.	Postoffice address or location of mine.	Number of employees				
			Cagers.	Drivers.	Laborers.	Loaders.	Machine-men.
1	O'Gara Coal Co., No. 9.....	Harrisburg.....	5	34	.....	216	44
2	Saline County Coal Co., No. 2.....	Ledford.....	5	32	28	258	32
3	O'Gara Coal Co., No. 3.....	Harrisburg.....	4	37	.....	166	40
4	O'Gara Coal Co., No. 1.....	do.....	8	25	.....	114	26
5	O'Gara Coal Co., No. 10.....	do.....	2	19	.....	122	26
6	Harrisburg-Southern Coal Co., No. 1.....	Eldorado.....	2	11	12	.....	.....
7	Wasson Coal Co., No. 1.....	Harrisburg.....	2	26	20	171	27
8	O'Gara Coal Co., No. 4.....	do.....	2	29	.....	135	30
9	O'Gara Coal Co., No. 14.....	do.....	3	24	.....	139	28
10	Saline County Coal Co., No. 3.....	do.....	3	14	12	162	22
11	Eldorado Coal Mining Co., No. 1.....	Eldorado.....	1	20	36	.....	8
12	O'Gara Coal Co., No. 15.....	Harrisburg.....	3	19	.....	97	18
13	O'Gara Coal Co., No. 11.....	do.....	3	15	.....	85	20
14	Saline County Coal Co., No. 1.....	Ledford.....	3	17	15	91	12
15	O'Gara Coal Co., No. 7.....	Harrisburg.....	3	9	.....	78	14
16	O'Gara Coal Co., No. 8.....	do.....	3	14	.....	71	18
17	O'Gara Coal Co., No. 12.....	do.....	2	10	.....	44	12
18	St. Louis Coal & Coke Co.....	Galatia.....	1	3	10	.....	.....
Total.....			55	358	133	1,949	377

WHITE COUNTY—

1	Norris City Coal Co.....	Norris City.....	1	4	7	.....	6
Total Eleventh District.....			117	520	492	3,942	848

WILLIAMSON COUNTY—

1	Big Muddy Coal & Iron Co., No. 8.....	Clifford.....	2	23	10	198	70
2	Johnston City Coal Co.....	Johnston City.....	2	18	12	90	16
3	Madison Coal Corp. No. 9.....	Dewmaine.....	6	24	30	36	4
4	Chicago-Carterville Coal Co., A.....	Herrin.....	2	24	46	204	68
5	Sunnyside Coal Co.....	do.....	2	21	6	80	20
6	Western Coal Mining Co.....	Bush.....	4	19	30	.....	.....
7	Big Muddy Coal & Iron Co., No. 7.....	Herrin.....	5	19	7	.....	.....
8	W. P. Rend Coal & Coke Co.....	do.....	3	17	18	170	33
9	Madison Coal Corp., No. 8.....	Dewmaine.....	4	20	30	.....	.....
10	Peabody Coal Co., No. 2.....	Marion.....	2	12	20	.....	.....
11	Taylor Coal Co., No. 2.....	Herrin.....	2	14	40	.....	.....
12	Peabody Coal Co., No. 3.....	Marion.....	3	20	40	.....	.....
13	Carterville Coal Co.....	Carterville.....	2	18	12	.....	.....
14	Chicago & B. M. C. Co.....	Marion.....	2	13	28	.....	.....
15	Hafer Washed Coal Co.....	Carterville.....	1	17	5	.....	.....
16	Chicago & Carterville, B.....	Herrin.....	2	18	20	.....	.....
17	West Va. Coal Co.....	Marion.....	3	8	.....	.....	14
18	Southern Illinois Coal & Coke Co., O. R.....	Herrin.....	5	14	36	141	.....
19	Big Muddy Fuel Co.....	Johnston City.....	2	9	.....	.....	14
20	Carterville District Coal Co.....	Marion.....	3	17	15	.....	32
21	Pond Creek Coal Co.....	Herrin.....	2	14	17	124	16
22	Standard Col. Co.....	Johnston City.....	2	11	.....	100	22
23	Carterville-Herrin Coal Co.....	Herrin.....	3	14	4	.....	.....
24	Williamson County Coal Co.....	Johnston City.....	3	21	8	.....	.....
25	St. Louis-Carterville Coal Co.....	Herrin.....	4	18	3	.....	.....
26	Carterville & B. M. C. Co.....	Cambria.....	2	9	2	.....	.....
27	Taylor Coal Co., No. 1.....	Herrin.....	1	13	10	.....	.....
28	Watson Coal Co.....	do.....	3	10	.....	.....	.....
29	Southern Ill. Coal & Coke Co., Hemlock.....	do.....	2	7	14	.....	.....

Continued.

ELEVENTH DISTRICT.

in each occupation.				Total clas- sified.	Number not classified.	Total num- ber employ- ees.	Number of days in operation.	Total tons pro- duced.	Number.
Min- ers.	Timber- men.	Track- men.	Trap- pers.						
.....	4	9	10	322	134	456	230	523,583	1
.....	14	14	4	387	72	459	238	498,223	2
.....	3	8	9	267	161	428	200	383,685	3
.....	2	9	4	188	80	268	243	286,318	4
.....	2	8	6	185	115	300	207	265,945	5
125	4	4	6	164	14	178	254	265,136	6
.....	2	7	3	258	.....	258	249	259,421	7
.....	3	5	6	210	82	292	190	244,900	8
.....	5	9	9	217	102	319	189	238,076	9
.....	5	14	.....	232	54	286	260	235,326	10
152	3	8	4	232	2	234	235	231,966	11
.....	1	6	6	150	65	215	206	193,151	12
.....	1	5	2	131	117	248	160	134,619	13
.....	3	4	4	149	25	174	215	105,667	14
.....	2	7	5	118	64	182	135	91,008	15
.....	2	4	4	116	69	185	92	68,228	16
.....	1	4	4	77	52	129	96	31,504	17
25	2	2	.....	43	5	48	90	20,000	18
302	59	127	86	3,446	1,213	4,659	194	4,076,756	

ELEVENTH DISTRICT.

30	1	2	.....	51	4	55	155	31,774	1
966	148	270	164	7,467	1,854	9,321	194	8,198,472	

TWELFTH DISTRICT.

.....	8	10	5	326	40	366	231	570,695	1
280	8	9	5	440	26	466	240	540,236	2
300	15	15	7	437	13	450	178	423,556	3
16	12	10	9	391	69	460	198	407,420	4
179	9	14	14	345	93	438	192	342,383	5
230	8	9	10	310	45	355	259	332,693	6
273	6	8	8	326	72	398	161	313,509	7
.....	5	10	6	262	53	315	200	290,938	8
250	8	9	8	329	21	350	194	288,968	9
160	2	4	4	204	18	222	204	228,365	10
160	4	5	5	230	7	237	215	227,819	11
275	4	8	15	365	25	390	116	222,701	12
178	4	8	5	227	37	264	138	218,418	13
182	3	5	4	237	26	263	142	204,392	14
155	2	4	3	187	18	205	152	200,137	15
208	9	7	3	267	34	301	178	197,534	16
125	2	3	.....	155	15	170	186	192,357	17
.....	2	4	2	204	15	219	183	188,873	18
155	4	4	4	192	40	232	206	179,381	19
146	5	5	5	228	10	238	141	174,390	20
17	2	4	3	199	30	229	220	158,089	21
.....	2	3	3	143	35	178	171	149,666	22
100	4	4	3	132	16	148	180	125,531	23
150	4	4	5	195	17	212	124	125,523	24
116	2	2	8	153	19	172	147	114,866	25
136	1	4	3	157	20	177	153	110,015	26
130	2	4	2	162	5	167	142	108,594	27
75	.....	3	2	93	10	103	158	106,605	28
104	.....	2	4	133	14	147	130	72,282	29

Table 48—

WILLIAMSON COUNTY—

Number.	Name of operator.	Postoffice. address or location of mine.	Number of employees				
			Cagers.	Drivers.	Laborers.	Loaders.	Machine-men.
30	Donally-Konecke	Carterville	2	12	8	.....	.....
31	Scranton & B. M. C. M. Co.	Marion	2	8	30	59	18
32	Robert Dick Coal Co.	Cambria	4	12	12	.....	.....
33	Pittsburg B. M. C. Co.	Pittsburg	1	4	.....	.....	8
34	Watson Coal Co.	Herrin	3	6	.....	.....	.....
	Total .....	.....	91	504	513	1,202	335
	Total Twelfth District .....	.....	91	504	513	1,202	335

Table 49 is a recapitulation of Table 48 and shows the same items by

TABLE 49—*Recapitulation of the number of persons employed in the employed, average days of working*

Districts.	Number of mines.	Number of employees				
		Cagers.	Drivers.	Laborers.	Loaders.	Machine-men.
First	24	52	387	366	22	.....
Second	13	37	291	370	.....	4
Third	32	43	282	239	158	48
Fourth	20	42	258	163	298	44
Fifth	34	61	388	769	386	101
Sixth	35	99	555	345	558	105
Seventh	23	77	418	400	2,390	675
Eighth	29	92	438	435	2,047	552
Ninth	58	103	386	407	1,241	360
Tenth	40	66	263	125	933	224
Eleventh	38	117	520	492	3,942	848
Twelfth	34	91	504	513	1,202	335
Total	380	880	4,690	4,624	13,177	3,296

Concluded.

TWELFTH DISTRICT—*Concluded.*

in each occupation.				Total classified.	Number not classified.	Total num- ber employ- ees.	Number of days in operation.	Total tons pro- duced.	Number.
Min- ers.	Timber- men.	Track- men.	Trap- pers.						
96	2	2	4	126	9	135	104	71,734	30
21	1	2	2	143	-----	143	145	70,202	31
100	2	2	2	134	16	150	94	59,291	32
60	2	2	-----	77	15	92	183	38,363	33
45	-----	3	-----	57	12	69	9	3,095	34
4,422	144	192	163	7,566	895	8,461	167	7,058,621	
4,422	144	192	163	7,566	895	8,461	167	7,058,621	

districts.

different occupations in shipping mines of the State, the total number time and total tons produced—1912.

in each occupation.				Total classi- fied.	Number not classified.	Total number of employees.	Average days in operation.	Total tons produced.
Miners.	Timber- men.	Track- men.	Trap- pers.					
3,978	67	88	44	5,004	433	5,437	202	2,351,330
3,270	45	35	92	4,144	385	4,529	109	2,051,523
3,364	66	72	55	4,327	544	4,871	205	2,767,346
2,207	53	84	56	3,205	335	3,540	183	2,333,758
4,128	139	111	125	6,208	499	6,707	185	5,002,440
5,152	169	199	159	7,341	785	8,126	174	5,928,518
2,004	168	215	164	6,511	811	7,322	183	7,170,963
2,389	157	163	153	6,426	905	7,331	170	5,801,039
2,490	65	134	44	5,230	471	5,701	130	4,409,341
2,475	36	85	63	4,270	791	5,061	135	3,023,344
966	148	270	164	7,467	1,854	9,321	194	8,198,472
4,422	144	192	163	7,566	895	8,461	167	7,058,621
36,845	1,257	1,648	1,282	67,699	8,708	76,407	172	56,096,695

PRICE PAID FOR MINING.

Table 50 shows by districts the tons mined by hand and by machine, with the average prices paid for mining. This year 42,305 tons were mined by machines in local mines. In the shipping mines there were cut by machines 5,551,800 tons more than last year, or an increase of more than 27 per cent.

TABLE 50—*Average price paid for mining by hand and by machine at shipping and local mines, by districts—1912.*

Districts.	Mining by hand.				Machine mining.	
	Shipping mines.		Local mines.		Shipping and local mines.	
	Tons.	Average price per ton.	Tons.	Average price per ton.	Tons.	Average price per ton.
First.....	2,351,330	\$0.881	254,426	\$0.78	6,800	Day work
Second.....	2,042,023	.838	198,870	.979	9,500	\$0.525
Third.....	2,514,888	.761	247,740	.762	252,458	.576
Fourth.....	1,938,225	.655	137,528	.935	395,533	.58
Fifth.....	4,089,709	.594	172,526	.681	912,731	.49
Sixth.....	5,087,728	.596	86,354	.59	840,790	.51
Seventh.....	1,566,468	.58	12,814	.731	5,621,969	.58
Eighth.....	2,103,994	.576	52,406	.629	3,698,245	.509
Ninth.....	2,189,769	.58	98,957	.58	2,227,862	.528
Tenth.....	1,338,219	.553	59,503	.609	1,693,706	.498
Eleventh.....	863,430	.54	22,312	.675	7,335,042	.469
Twelfth.....	4,503,198	.54	31,804	.602	2,555,423	.54
The State.....	30,588,981	\$0.636	1,375,240	\$0.641	25,550,059	\$0.496

Table 51 gives the record for twelve years of hand and machine mining, at shipping mines, of the tons produced and price per ton.

TABLE 51—*Total tonnage and average prices paid for hand and machine mining at shipping mines for a series of twelve years—1901-1912.*

Years.	Hand mining.		Machine mining.	
	Tons.	Price per ton.	Tons.	Price per ton.
1901.....	20,172,779	\$0.564	5,774,639	\$0.412
1902.....	22,186,812	0.564	6,647,086	0.395
1903.....	26,042,104	0.57	7,646,777	0.434
1904.....	28,648,682	0.593	7,130,835	0.466
1905.....	27,762,968	0.578	8,193,575	0.443
1906.....	27,566,480	0.57	9,563,230	0.442
1907.....	31,854,488	0.592	14,490,454	0.479
1908.....	32,604,716	0.593	15,210,403	0.467
1909.....	31,556,456	0.593	16,407,692	0.46
1910.....	29,048,947	0.597	18,176,254	0.462
1911.....	28,769,398	0.627	19,998,259	0.494
1912.....	30,588,981	0.636	25,550,059	0.496

Table 52 shows the earnings of miners in shipping mines where no machines are used. The same showing is made for the eleven prior years.

The average daily earnings of the miners is greater this year than for any year of the series.

TABLE 52—*Earnings of coal miners, hand mining exclusively, in shipping mines for the year ended June 30, 1912, by districts.*

Districts.	Number of miners.	Average days worked.	Total tons mined by hand.	Average rate per ton.	Gross earnings.	Average tons per man per year.	Average earnings per man per year.	Average tons per man per day.	Average earnings per man per day.
First.....	3,978	202	2,351,330	\$0.881	\$2,071,678	591.09	\$520.81	2.93	\$2.58
Second.....	3,255	207	2,038,483	.838	1,707,706	626.26	524.64	3.03	2.53
Third.....	3,261	201	2,448,122	.768	1,880,528	750.72	576.67	3.72	2.87
Fourth.....	1,968	158	1,823,234	.65	1,185,111	926.44	602.19	5.86	3.81
Fifth.....	3,480	179	3,519,010	.594	2,094,131	1,011.22	601.13	5.65	3.36
Sixth.....	5,152	174	5,087,728	.599	3,030,579	987.52	588.23	5.67	3.38
Seventh.....	1,137	149	1,153,793	.58	669,200	1,013.89	588.89	6.80	3.95
Eighth.....	1,692	158	1,794,184	.572	1,026,535	1,060.39	606.71	6.71	3.84
Ninth.....	2,335	124	2,128,437	.58	1,234,493	911.54	528.69	7.35	4.26
Tenth.....	1,511	111	1,026,447	.532	545,990	679.31	361.35	6.12	3.25
Eleventh.....	178	180	137,667	.54	74,340	773.40	417.64	4.30	2.32
Twelfth.....	2,963	139	3,103,706	.54	1,676,001	1,047.49	565.64	7.54	4.07
The State..	30,910	166	26,612,141	\$0.687	\$17,196,294	860.96	556.33	5.18	\$3.35
1911.....	30,754	167	24,026,071	.638	15,318,388	781.23	498.09	4.68	2.98
1910.....	32,061	168	26,481,377	.603	15,956,930	825.97	497.71	4.92	2.96
1909.....	33,053	180	27,996,351	.603	16,878,751	847.00	510.66	4.71	2.84
1908.....	32,606	188	29,538,900	.604	17,834,410	906.00	546.97	4.82	2.91
1907.....	22,186	209	30,796,283	.592	18,231,400	927.99	549.39	4.44	2.63
1906.....	30,742	189	25,628,945	.570	14,767,153	833.68	480.86	4.40	2.54
1905.....	31,185	198	26,566,481	.578	15,353,039	851.90	492.32	4.29	2.48
1904.....	28,717	213	27,091,501	.598	16,233,869	943.39	565.30	4.42	2.65
1903.....	25,878	224	24,455,225	.569	14,043,280	944.63	542.67	4.22	2.42
1902.....	24,229	209	20,616,155	.564	11,638,120	850.88	480.34	4.06	2.29
1901.....	22,206	203	18,227,130	.569	10,372,670	821.00	467.11	4.04	2.30

MACHINE MINING.

Table 53 is a record of machine mining by districts. There were in use during the year 1,581 machines and the tonnage cut was 25,550,059. This is an increase over last year of mines using machines, 13; machines in use, 151; tons cut, 5,551,800.

TABLE 53—*Machine mining—mines, men, machines, tons, by districts.*

Districts.	Mines in which machines are used—									
	Exclusively.				In part.			Total.		
	Mines.	Men.	Machines.	Tons.	Mines.	Machines.	Tons.	Mines.	Machines.	Tons.
First.....					1	1	6,800	1	1	6,800
Second.....					1	2	9,500	1	2	9,500
Third.....	3	265	15	192,923	2	6	59,535	5	21	252,458
Fourth.....					3	23	395,533	3	23	395,533
Fifth.....	2	330	15	228,942	5	36	683,789	7	51	912,731
Sixth.....	2	1,039	29	840,790				2	29	840,790
Seventh.....	13	4,894	291	5,350,321	4	32	271,648	17	323	5,621,969
Eighth.....	10	3,629	171	3,185,955	6	64	512,290	16	235	3,698,245
Ninth.....	11	1,589	117	1,544,634	6	61	683,228	17	178	2,227,862
Tenth.....	8	1,547	79	1,152,695	10	51	541,011	18	130	1,693,706
Eleventh.....	16	3,973	162	3,278,072	17	228	4,056,970	33	390	7,335,042
Twelfth.....	4	1,097	78	1,185,689	15	120	1,369,734	19	198	2,555,423
The State.....	69	18,363	957	16,960,021	70	624	8,590,038	139	1,581	25,550,059

Table 54 gives the record of machine mining for thirteen years.

TABLE 54—*Machine mining—mines, men, machines, tons, for thirteen years.*

Year.	Mines in which machines are used—									
	Exclusively.				In part.			Total.		
	Mines.	Men.	Machines.	Tons.	Mines.	Machines.	Tons.	Mines.	Machines.	Tons.
1900.....	38	3,883	272	3,765,601	29	158	1,817,993	67	430	5,583,594
1901.....	29	3,499	280	3,761,270	34	184	2,015,369	63	464	5,774,639
1902.....	34	4,811	308	4,460,025	30	156	2,037,098	64	464	6,497,123
1903.....	33	4,378	292	4,393,052	35	230	3,253,725	68	522	7,646,777
1904.....	40	3,691	400	4,903,184	27	223	2,237,243	67	623	7,140,427
1905.....	52	4,635	560	6,406,571	24	224	1,795,495	76	784	8,202,066
1906.....	57	6,137	685	7,638,536	28	277	1,924,694	85	962	9,563,230
1907.....	60	6,858	748	10,434,573	41	357	4,055,881	101	1,105	14,490,454
1908.....	60	12,357	754	11,246,285	45	406	3,964,138	105	1,160	15,210,423
1909.....	55	12,258	771	10,637,513	52	475	5,770,179	107	1,246	16,407,692
1910.....	61	14,454	839	12,474,471	53	450	5,701,783	114	1,289	18,176,254
1911.....	60	14,754	854	12,625,625	66	576	7,372,634	126	1,430	19,998,259
1912.....	69	18,363	957	16,960,021	70	624	8,590,038	139	1,581	25,550,059

Table 55. The name and number of machines in use is given in this table by districts.

TABLE 55—*Name and number of mining machines in use, by districts—1912.*

District.	Sullivan.	Morgan-Gardner.	Goodman.	Ingersoll.	Harrison.	Jeffrey.	Ingersoll-Sargent.	Herzler & Heninger.	Whitcomb.	General Electric.	Total.
First.....									1		1
Second.....	1	1									2
Third.....	3	12				6					21
Fourth.....		21				2					23
Fifth.....	22	7	11			11					51
Sixth.....	1	14	14								29
Seventh.....	119	22	54	55	43	10	20				323
Eighth.....	106		56	36	1	23	12			1	235
Ninth.....	74	1	9	22	46	7		19			178
Tenth.....	43		41		27		9				130
Eleventh.....	65	207	54	27	1	36					390
Twelfth.....	129	22	18	3	4	22					198
The State.....	563	307	257	143	122	117	51	19	1	1	1,581

Table 56 gives the name and number of machines in use each year for thirteen years.

TABLE 56—*Name and number of mining machines in use for thirteen years.*

Year.	Sullivan.	Ingersoll-Ser- geant.	Harrison.	Goodman.	Morgan-Gard- ner.	Jeffrey.	Ingersoll-Rand. Herzler & Hen- ninger.	Yock.	Link Belt.	Lee.	Butler.	Electric.	Belleville.	Ingersoll.	Whitcomb.	Total.
1900.....	40	119	197	.....	19	30	.....	1	5	19	.....	.....	.....	.....	.....	430
1901.....	33	132	178	.....	32	33	.....	13	24	19	.....	.....	.....	.....	.....	464
1902.....	36	133	160	32	22	31	.....	20	28	.....	2	.....	.....	.....	.....	464
1903.....	82	95	178	15	15	50	.....	33	31	21	2	.....	.....	.....	.....	522
1904.....	131	142	210	29	27	29	.....	22	27	4	2	.....	.....	.....	.....	623
1905.....	183	178	236	49	19	41	.....	40	33	4	1	.....	.....	.....	.....	784
1906.....	315	197	244	82	28	33	.....	35	25	3	.....	.....	.....	.....	.....	962
1907.....	427	221	195	112	74	35	.....	26	8	4	3	.....	.....	.....	.....	1,105
1908.....	476	196	181	127	112	34	.....	23	1	4	5	5	1	.....	.....	1,160
1909.....	474	206	168	134	194	49	.....	11	7	2	.....	.....	1	.....	.....	1,246
1910.....	501	157	149	124	223	74	19	77	6	11	2	.....	.....	.....	.....	1,289
1911.....	560	28	121	173	275	85	60	18	11	.....	.....	.....	.....	99	.....	1,430
1912.....	563	51	122	257	307	117	.....	19	.....	.....	.....	1	.....	153	1	1,581

Table 57 is a list of seventy mines in which machines are used exclusively in mining coal. The list is arranged according to the tonnage and gives the location, the number and name of the machines in use and the tons mined.

TABLE 57—*Mines in which machines are used exclusively.*

Number.	Company.	Location.	Machines.		Tons.
			No.	Name.	
1	Superior Coal Co., No. 3.....	Gillespie.....	38	4 Jeffrey; 22 Harrison; 11 Sullivan; 1 Ingersoll.....	837,979
2	Superior Coal Co., No. 2.....	do.....	44	3 Jeffrey; 11 Ingersoll; 27 Sullivan; 3 Harrison.....	791,835
3	New Staunton Coal Co., No. 1..	Livingston.....	16	Goodman.....	737,632
4	Superior Coal Co., No. 1.....	Gillespie.....	47	2 Jeffrey; 42 Ingersoll; 3 Harrison	673,717
5	Big Muddy C. & I. Co., No. 8...	Clifford.....	36	33 Sullivan; 3 Ingersoll.....	570,695
6	Consolidated Coal Co., No. 14...	Staunton.....	30	Sullivan.....	534,485
7	Consolidated Coal Co., No. 17...	Collinsville.....	32	31 Sullivan; 1 Harrison.....	516,913
8	Mt. Olive and Stau. C. Co., No. 2	Staunton.....	15	13 Goodman; 2 Jeffrey.....	506,044
9	Saline Co. Coal Co., No. 2.....	Ledford.....	10	1 Goodman; 9 Morgan-Gardner.	498,223
10	Chi., Wilm. & Ver. C. Co., No. 1	Thayer.....	15	13 Morgan-Gardner; 1 Goodman; 1 Sullivan.....	486,140
11	Consolidated Coal Co., No. 15...	Mt. Olive.....	28	Sullivan.....	460,116
12	Bell-Zollar M. Co., No. 1.....	Zeigler.....	18	Goodman.....	423,687
13	Shoal Creek Coal Co., No. 1.....	Panama.....	21	Goodman.....	407,025
14	Donk Bros. C. & C. Co., No. 2..	Maryville.....	39	Sullivan.....	380,904
15	Royal Colliery Co., No. 1.....	Virden.....	13	Goodman.....	362,815
16	Marion Co. Coal Co.....	Centralia.....	9	Goodman.....	357,648
17	Madison Coal Corporation, No. 6	Divernon.....	14	Goodman.....	354,650
18	Southern C. & M. Co., No. 9....	New Baden.....	33	32 Sullivan; 1 Harrison.....	352,301
19	Southern C. & M. Co., No. 8....	Belleville.....	9	7 Jeffrey; 1 Morgan-Gardner; 1 Goodman.....	331,987
20	Montgomery Co. Coal Co.....	Hillsboro.....	15	Sullivan.....	329,222
21	Mt. Olive and Stau. C. Co., No. 1	Staunton.....	9	6 Jeffrey; 3 Sullivan.....	311,682
22	Hillsboro Coal Co.....	Hillsboro.....	10	9 Morgan-Gardner, 1 Jeffrey...	293,619
23	W. P. Rend C. & C. Co., No. 1..	Herrin.....	15	Morgan-Gardner.....	290,938
24	W. P. Rend Col. Co., No. 1....	Rend.....	16	10 Morgan-Gardner; 6 Jeffrey...	267,441
25	O'Gara Coal Co., No. 10.....	Harrisburg.....	13	Morgan-Gardner.....	265,945
26	Wasson Coal Co., No. 1.....	do.....	12	Morgan-Gardner.....	259,421
27	Madison Coal Corp., No. 5.....	Mt. Olive.....	20	Ingersoll-Sergeant.....	252,885
28	O'Gara Coal Co., No. 4.....	Harrisburg.....	10	Morgan-Gardner.....	244,900
29	Lumaghi Coal Co., No. 2.....	Collinsville.....	24	19 Sullivan; 5 Jeffrey.....	238,140
30	O'Gara Coal Co., No. 14.....	Harrisburg.....	10	Morgan-Gardner.....	238,076

Table 57—Continued.

Number.	Company.	Location.	Machines.		Tons.
			No.	Name.	
31	Saline Co. Coal Co., No. 3.....	do.....	7	Morgan-Gardner.....	235,326
32	Southern C. & M. Co., No. 8.....	Belleville.....	19	Harrison.....	233,921
33	Willis C. M. Co., No. 1.....	Willisville.....	11	5 Sullivan; 6 Goodman.....	222,541
34	Kortkamp Coal Co.....	Hillsboro.....	10	Goodman.....	222,256
35	Big Muddy C. & I. Co., No. 9.....	Murphysboro.....	9	Sullivan.....	216,445
36	Southern Ill. C. & C. Co.....	Herrin.....	14	13 Sullivan; 1 Harrison.....	206,918
37	Ohio Valley M. Co., No. 8.....	West Frankfort.....	14	Jeffrey.....	197,773
38	Willis Coal M. Co., No. 6.....	Percy.....	7	Goodman.....	188,779
39	Stonington Coal Co.....	Stonington.....	7	Goodman.....	175,516
40	Carterville Dist. Coal Co., No. 1.....	Marion.....	16	Sullivan.....	174,390
41	Consolidated Coal Co., No. 8.....	Mt. Olive.....	14	Harrison.....	166,893
42	Superior C. & M. Co.....	Belleville.....	10	Herzler & Henninger.....	158,622
43	Standard Col. Co.....	Johnston City.....	11	Jeffrey.....	149,666
44	O'Gara Coal Co., No. 11.....	Harrisburg.....	10	Morgan-Gardner.....	134,619
45	Security C. & M. Co., No. 1.....	Duquoin.....	6	Sullivan.....	130,575
46	Tazewell Coal Co.....	Pekin.....	10	Morgan-Gardner.....	126,206
47	Kerns-Donnewald Coal Co.....	Worden.....	7	5 Jeffrey; 2 Goodman.....	122,584
48	Big Muddy C. & I. Co., Harrison	Murphysboro.....	17	Harrison.....	114,271
49	Breese Trenton M. Co.....	Trenton.....	18	16 Ingersoll; 2 Harrison.....	105,465
50	Carroll & Franklin Co.'s C. Co.....	Hanaford.....	6	Morgan-Gardner.....	99,540
51	Illinois Fuel Co., No. 4.....	Sparta.....	7	Goodman.....	97,508
52	Ritchey Coal Co., No. 1.....	Pinckneyville.....	7	Harrison.....	92,612
53	Lumaghi Coal Co., No. 3.....	Collinsville.....	13	Sullivan.....	91,671
54	O'Gara Coal Co., No. 7.....	Harrisburg.....	4	Morgan-Gardner.....	91,008
55	Moffatt Coal Co., No. 1.....	Sparta.....	15	Sullivan.....	89,964
56	DeCamp Coal Co., No. 1.....	Staunton.....	6	Goodman.....	87,349
57	O'Gara Coal Co. No. 8.....	Harrisburg.....	9	Morgan-Gardner.....	68,228
58	Moweaqua C. & M. Mfg. Co., No. 1.....	Moweaqua.....	8	1, Goodman; 7, Morgan-Gardner.....	53,426
59	Mo. & Ill. Coal Co.....	Rentchler.....	4	Goodman.....	51,603
60	Applegate & Lewis Coal Co.....	Hanna City.....	4	2, Sullivan, 2, Jeffrey.....	51,503
61	Mulberry Hill Coal Co.....	Freeburg.....	4	Goodman.....	40,440
62	Dewey Coal Mining Co.....	Belleville.....	4	2, Harrison; 2, Herzler & Henninger.....	40,200
63	Southern Coal Mining Co., No. 1.....	do.....	6	Harrison.....	35,670
64	O'Gara Coal Co., No. 12.....	Harrisburg.....	6	Morgan-Gardner.....	31,504
65	Wm. Neil.....	Bunker Hill.....	1	Harrison.....	17,474
66	Crescent Coal Co.....	Equality.....	3	Sullivan.....	15,463

Table 57—Concluded.

Number	Company.	Location.	Machines.		Tons.
			No.	Name.	
67	German Coal Co.....	Mapleton.....	1	Jeffrey.....	15,214
68	Southern Coal & M. Co., No. 4..	Belleville.....	4	Harrison.....	13,739
69	Peoples Coal Co.....	Lebanon.....	2	do.....	8,250
70	Silver Creek Coal Co.....	Mascoutah.....	5	3 Harrison; 2, Sullivan.....	7,824
	Total.....		957		16,960,021

Table 58 is a list of the 957 machines used in the mines where machine mining is carried on exclusively, and gives the name and number of each, the number of mines using, number of men employed, days worked and tons produced.

TABLE 58—*Machine mining exclusively, name and number of machines, number of mines, men, days and tons.*

Name of machines.	Number of —				
	Machines.	Mines.	Men.	Average days.	Tons.
Sullivan.....	174	10	2,850	159	2,423,235
Goodman.....	136	13	3,938	175	3,506,908
Morgan-Gardner.....	112	12	2,800	183	2,085,711
Harrison.....	68	7	927	157	682,830
Jeffrey.....	26	3	400	188	362,653
Ingersoll-Sargent.....	20	1	299	189	252,885
Herzler and Henninger.....	10	1	131	206	158,622
Jeffrey, 7—Harrison, 27—Sullivan, 38—Ingersoll, 12....	84	2	1,154	228	1,629,814
Sullivan, 78—Harrison, 6.....	84	4	998	175	1,083,956
Jeffrey, 2—Ingersoll, 42—Harrison, 3.....	47	1	562	225	673,717
Sullivan, 24—Jeffrey, 13.....	37	3	864	161	601,325
Ingersoll, 16—Harrison, 2.....	18	1	180	136	105,465
Sullivan, 33—Ingersoll, 3.....	36	1	366	231	570,695
Morgan-Gardner, 19—Jeffrey, 7.....	26	2	513	224	561,060
Goodman, 15—Jeffrey, 7.....	22	2	723	153	628,628
Goodman, 2—Morgan-Gardner, 16.....	18	2	563	180	551,649
Morgan-Gardner, 13—Goodman, 1—Sullivan, 1.....	15	1	525	199	486,140
Sullivan, 5—Goodman, 6.....	11	1	236	218	222,539
Jeffrey, 7—Morgan-Gardner, 1—Goodman, 1.....	9	1	286	215	331,989
Harrison, 2—Herzler and Henninger, 2.....	4	1	48	180	40,200
Total.....	957	69	18,363	176	16,960,021

Table 59 gives the name, location, number and name of machine used, and tons produced in those mines where only a part of the tonnage is undercut.

TABLE 59—*Mines in which only part of the output is cut by machines.*

Number.	Company.	Location.	Machines.		Tons.
			No.	Name.	
1	O'Gara Coal Co. No. 9.....	Harrisburg.....	15	Morgan-Gardner.....	522,524
2	United C. M. Co., No. 1.....	Christopher.....	19	Goodman.....	465,215
3	St. L. & O'Fallon C. Co., No. 2..	E. St. Louis.....	32	Sullivan.....	514,978
4	Sesser Coal Co.....	Sesser.....	29	27, Ingersoll; 2 Sullivan.....	400,402
5	Chi. & Carterville Coal Co., A....	Herrin.....	34	Sullivan.....	387,263
6	O'Gara Coal Co., No. 3.....	Harrisburg.....	15	Morgan-Gardner.....	382,131
7	Zeigler Dist. Col. Co.....	Christopher.....	17	16, Jeffrey; 1, Morgan-Gardner.	373,997
8	Bunsen Coal Co., Verm.....	Westville.....	16	10, Sullivan; 6, Jeffrey.....	320,183
9	Hart-Williams Coal Co.....	Benton.....	18	Morgan-Gardner.....	89,327
10	Benton Coal Co.....	..do.....	15	..do.....	286,849
11	O'Gara Coal Co, No. 11	Harrisburg.....	13	..do.....	239,176
12	Bunsen Coal Co., No. 3.....	Westville.....	9	7, Sullivan; 2, Jeffrey.....	224,375
13	Big Creek Coal Co., No. 2.....	St. David.....	12	Morgan-Gardner.....	219,810
14	Dering Coal Co., No. 11.....	West Frankfort....	25	Sullivan.....	209,416
15	Greenridge Coal Co., No. 1.....	Viriden.....	10	Goodman.....	204,872
16	O'Gara Coal Co., No. 15.....	Harrisburg.....	9	Morgan-Gardner.....	192,552
17	Madison Coal Corp., No. 2.....	Glen Carbon.....	18	Ingersoll.....	163,501
18	West Va. Coal Co., No. 1.....	Marion.....	7	Jeffrey.....	166,142
19	Sunnyside Coal Co., No. 1.....	Herrin.....	18	Sullivan.....	161,777
20	Franklin C. & C. Co.....	Royalton.....	9	3, Morgan-Gardner; 6, Goodman.....	159,084
21	Big Creek Coal Co., No. 4.....	Dunfermline.....	9	Morgan-Gardner.....	158,507
22	Odin Coal Co.....	Odin.....	9	4, Goodman; 5, Jeffrey.....	158,442
23	Pond Creek Coal Co.....	Herrin.....	16	Sullivan.....	150,970
24	Harrisburg & So. C. Co., No. 1....	Eldorado.....	6	Morgan-Gardner.....	143,173
25	Paradise Coal Co.....	Duquoin.....	9	Goodman.....	142,628
26	Bunsen Coal Co., No. 2.....	Westville.....	9	5, Sullivan; 1, Goodman; 3, Jeffrey.....	132,665
27	Johnston City C. Co., No. 1....	Johnston City.....	9	1, Goodman; 1, Jeffrey; 7, Morgan-Gardner.....	128,234
28	Mo. & Ill. Coal Co., No. 4.....	Willisville.....	8	Goodman.....	126,909
29	Royal mining Co.....	Belleville.....	11	Sullivan.....	125,767
30	Peabody Coal Co. No. 2.....	Marion.....	5	1, Jeffrey; 4, Goodman.....	122,173
31	Dering Coal Co., No. 18.....	West Frankfort....	21	Sullivan.....	104,941
32	Saline Co. Coal Co., No. 1.....	Ledford.....	5	4, Morgan-Gardner; 1, Goodman	99,350

Table 59—Concluded.

Number.	Company.	Location.	Machines.		Tons.
			No.	Name.	
33	Eldorado C. M. Co., No. 1.....	Eldorado.....	4	Goodman.....	91,700
34	Madison Coal Corp., No. 4.....	Glen Carbon.....	18	Ingersoll.....	83,785
35	Wilson Bros. C. Co., No. 7.....	Sparta.....	3	Goodman.....	69,572
36	United C. M. Co., No. 2.....	Christopher.....	5	do.....	66,488
37	Gus Blair B. M. C. Co., No. 1.....	Murphysboro.....	8	Ingersoll-Sargent.....	63,678
38	Seranton B. M. C. M. Co.....	Marion.....	7	Sullivan.....	63,002
39	Big Muddy Fuel Co.....	Johnston City.....	7	Goodman.....	61,972
40	Southern Ill. C. & C. Co.....	Herrin.....	9	5, Sullivan; 4, Harrison.....	56,662
41	Gartside Coal Co., No. 4.....	Murphysboro.....	6	Ingersoll-Sargent.....	55,254
42	North Breese C. M. Co.....	Breese.....	4	Goodman.....	53,669
43	Peabody Coal Co., No. 10.....	Nokomis.....	8	7, Sullivan; 1, Ingersoll.....	51,441
44	Deming Cruickshank C. Co., No. 3.....	Peoria.....	4	3, Jeffrey; 1, Morgan-Gardner..	50,384
45	City Coal Co., No. 3.....	Edwardsville.....	5	Ingersoll-Sargent.....	38,593
46	Madison Coal Corp., No. 9.....	Dewmaine.....	4	2, Goodman; 2, Jeffrey.....	47,176
47	Norris City C. M. Co.....	Norris City.....	3	2, Morgan-Gardner; 1, Sullivan	30,645
48	Pittsburg B. M. Coal Co., No. 2.....	Pittsburg.....	4	Goodman.....	24,363
49	L. Senior.....	Belleville.....	3	Harrison.....	22,701
50	Gus Blair B. M. Coal Co., No. 2.....	Murphysboro.....	5	Ingersoll-Sargent.....	21,550
51	Centralia Coal Co., No. 5.....	Centralia.....	2	Goodman.....	21,000
52	Silver Creek Col. Co., No. 1.....	Farmington.....	2	Jeffrey.....	17,216
53	Brilliant C. & C. Co.....	Duquoin.....	1	Goodman.....	16,328
54	Bald Eagle M. Co.....	Craig.....	6	Sullivan.....	15,511
55	W. S. Walker.....	Edwardsville.....	7	Ingersoll-Sargent.....	13,100
56	Central Ill. Fuel Co., No. 1.....	Coal City.....	2	Sullivan.....	9,500
57	Ill. Valley Coal Co., No. 2.....	Sparland.....	2	1, Morgan-Gardner; 1, Sullivan	9,151
58	Schmidgall Coal Co.....	Murphysboro.....	3	Harrison.....	8,581
59	Clover Leaf M. Co., No. 2.....	Coffeen.....	1	Sullivan.....	8,123
60	International C. & M. Co.....	O'Fallon.....	6	Ingersoll.....	8,048
61	Star Coal Co.....	Freeburg.....	7	Herzler and Henninger.....	8,000
62	Vivian Collieries Co.....	Greenridge.....	13	Morgan-Gardner.....	7,212
63	Streator Clay Mfg. Co.....	Streator.....	1	G. D. Whitecomb.....	6,800
64	Traer Coal Co., No. 1.....	Danville.....	1	Sullivan.....	6,150
65	Mo. and Ill. Coal Co.....	Wilderman.....	2	Harrison.....	3,734
66	Williams and Newman.....	Collinsville.....	3	2, Goodman; 1, Gen. Elect.....	1,200
67	Missionfield Coal Co., No. 3.....	Danville.....	1	Sullivan.....	416
Total.....			624		8,590,038

POWDER.

Tables 60, 61, 62, 63 and 64 are known as the "powder tables," and give in detail the record of the consumption of powder in the mines for blasting down coal.

Table 60 is the record for all mines, while the others are for shipping mines only, and are divided into three classes—hand mining, machine mining and both hand and machine. Thirty-nine mines are not accounted for in these tables.

This year shows a material increase both in amount of powder used and in tons mined, while a very slight increase in the number of tons per keg is seen.

TABLE 60—*Distribution of powder in all mines, by districts, for blasting down coal.*

Districts.	Number of mines.	Number of miners.	Number of kegs of powder.	Number of tons of coal.	Number of kegs per man.	Number of tons per keg.
First.....	25	1,777	26,754	1,145,999	15.06	42.83
Shipping.....	10	1,594	18,413	947,557	11.55	51.46
Local.....	15	183	8,341	198,442	45.53	23.79
Second.....	51	661	26,348	519,089	39.86	19.70
Shipping.....	6	396	19,664	387,431	49.66	19.70
Local.....	45	265	6,684	131,658	25.22	19.70
Third.....	89	1,942	89,010	1,785,846	45.83	20.06
Shipping.....	26	1,643	77,931	1,540,800	47.43	19.77
Local.....	63	299	11,079	245,046	37.05	22.12
Fourth.....	137	2,877	120,941	2,439,782	42.04	20.17
Shipping.....	20	2,549	115,579	2,333,758	45.93	20.19
Local.....	117	328	5,362	106,024	16.35	19.77
Fifth.....	62	4,446	157,000	4,971,814	35.31	31.67
Shipping.....	31	4,287	151,402	4,812,997	35.37	31.78
Local.....	31	159	5,598	158,817	35.21	28.37
Sixth.....	39	5,787	252,473	5,987,719	43.63	23.52
Shipping.....	34	5,696	248,503	5,851,365	43.63	23.55
Local.....	5	91	3,970	86,354	43.63	21.75
Seventh.....	27	5,143	91,740	7,197,987	17.82	78.46
Shipping.....	23	5,119	91,359	7,170,963	17.85	78.55
Local.....	4	24	381	27,024	15.88	70.93
Eighth.....	39	4,942	112,455	5,853,945	22.75	52.06
Shipping.....	29	4,882	110,733	5,801,039	22.68	52.38
Local.....	10	60	1,722	52,906	28.70	30.72

Table 60—Concluded.

Districts.	Number of mines.	Number of miners.	Number of kegs of powder.	Number of tons of coal.	Number of kegs per man.	Number of tons per keg.
Ninth.....	74	4,200	100,943	4,509,412	24.03	44.67
Shipping.....	58	4,091	97,694	4,409,341	23.88	45.13
Local.....	16	109	3,249	100,071	29.81	30.80
Tenth.....	63	3,707	67,801	3,090,840	18.29	45.56
Shipping.....	40	3,632	65,711	3,023,344	18.09	46.01
Local.....	23	75	2,090	67,496	27.87	32.29
Eleventh.....	49	4,130	80,969	5,857,719	19.60	78.01
Shipping.....	30	4,086	80,122	5,835,407	19.61	78.60
Local.....	19	44	847	22,312	19.27	26.34
Twelfth.....	49	6,006	187,014	7,089,425	31.14	37.91
Shipping.....	34	5,959	186,203	7,058,621	31.25	37.91
Local.....	15	47	811	31,804	17.25	39.08
The State.....	704	45,618	1,313,448	51,149,692	28.79	38.94
Shipping.....	341	43,934	1,263,314	49,172,623	28.76	38.92
Local.....	363	1,684	50,134	1,977,069	29.76	39.44

TABLE 61—Distribution of powder in all shipping mines, by districts.

Districts.	Number of mines.	Number of miners.	Number of tons.	Number of kegs of powder.	Number of kegs per man.	Number of tons per keg.
First.....	10	1,594	947,557	18,413	11.55	51.46
Second.....	6	396	387,431	19,664	49.66	19.70
Third.....	26	1,643	1,540,800	77,931	47.43	19.77
Fourth.....	20	2,549	2,333,758	115,579	45.93	20.19
Fifth.....	31	4,287	4,812,997	151,402	35.32	31.78
Sixth.....	34	5,696	5,851,365	248,503	43.63	23.55
Seventh.....	23	5,119	7,170,963	91,359	17.85	78.55
Eighth.....	29	4,882	5,801,039	110,733	22.68	52.38
Ninth.....	58	4,091	4,409,341	97,694	23.85	45.13
Tenth.....	40	3,632	3,023,344	65,711	18.09	46.01
Eleventh.....	30	4,086	5,835,407	80,122	19.61	78.60
Twelfth.....	34	5,959	7,058,621	186,203	31.25	37.91
Total.....	341	43,934	49,172,623	1,263,314	28.76	38.92

TABLE 62—*Consumption of powder in shipping mines, hand mining exclusively, by districts.*

Districts.	Number of mines.	Number of miners.	Number of tons.	Number of kegs of powder.	Number of kegs per man.	Number of tons per keg.
First.....	10	1,994	947,557	18,413	11.55	51.35
Second.....	5	377	374,391	19,440	51.57	19.26
Third.....	21	1,338	1,221,576	70,659	52.81	17.29
Fourth.....	17	1,968	1,823,234	101,254	51.45	18.09
Fifth.....	24	3,152	3,329,567	114,129	36.21	29.16
Sixth.....	32	5,033	5,010,575	240,339	47.75	20.85
Seventh.....	7	1,137	1,153,793	29,678	26.10	38.20
Eighth.....	13	1,659	1,948,761	72,028	43.42	27.06
Ninth.....	41	2,340	2,072,477	71,015	30.35	28.18
Tenth.....	23	1,606	1,026,447	34,314	21.37	26.99
Eleventh.....	5	180	137,667	6,487	36.04	21.22
Twelfth.....	19	2,963	3,103,707	117,026	39.49	26.52
Total.....	217	23,347	22,149,752	894,782	38.33	24.75
Percentages.....	63.64	53.14	45.05	70.83	.....	.....

TABLE 63—*Consumption of powder in shipping mines, machine mining exclusively, by districts.*

Districts.	Number of mines.	Number of machines.	Number of miners.	Number of tons.	Number of kegs of powder.	Number of kegs per man.	Number of tons per keg.
Third.....	3	15	183	192,923	3,006	16.43	64.18
Fifth.....	2	15	258	228,942	2,500	96.90	91.58
Sixth.....	2	29	663	840,790	8,164	12.31	101.99
Seventh.....	12	290	3,348	5,332,847	40,520	12.10	131.61
Eighth.....	10	171	2,497	3,085,955	25,253	10.11	122.20
Ninth.....	11	133	1,073	1,497,344	14,107	13.15	106.14
Tenth.....	8	79	1,040	1,152,695	13,898	13.36	82.94
Eleventh.....	14	130	1,997	2,656,612	27,740	13.82	95.77
Twelfth.....	4	78	773	1,185,689	15,389	19.91	77.05
Total.....	66	940	11,832	16,173,797	150,577	12.73	107.41
Percentages.....	19.35	65.14	26.93	32.89	11.92	.....	.....

TABLE 64—*Consumption of powder in shipping mines, hand and machine mining combined, by districts.*

Districts.	Number of mines.	Number of machines.	Number of miners.	Number of tons.	Number of kegs of powder.	Number of kegs per man.	Number of tons per keg.
Second.....	1	2	19	13,040	224	11.79	58.21
Third.....	2	6	122	126,301	4,266	34.97	29.61
Fourth.....	3	23	581	510,524	14,325	24.66	35.64
Fifth.....	5	36	877	1,254,488	34,773	39.65	36.08
Seventh.....	4	32	634	684,323	21,161	33.38	32.34
Eighth.....	6	61	726	766,323	13,452	18.53	56.97
Ninth.....	6	61	678	839,520	12,572	18.54	66.78
Tenth.....	9	48	986	844,202	17,499	17.75	48.23
Eleventh.....	11	114	1,909	3,041,128	45,895	20.96	66.26
Twelfth.....	11	120	2,223	2,769,225	53,788	24.20	51.48
Total.....	58	503	8,755	10,849,074	217,955	24.22	49.78
Percentages.....	17.01	34.86	19.93	22.06	17.25	.....	.....

Table 65 shows the percentages each year for four years of the mines, miners, tons produced and kegs of powder used in each of the three classes.

TABLE 65—*Percentages of mines, miners, tons and kegs of powder represented in shipping mines where powder is used for blasting coal; also averages, kegs of powder per man and tons per keg.*

	1912.			1911.			1910.			1909.		
	Mining by—			Mining by—			Mining by—			Mining by—		
	Hand.	Machine.	Hand and machine.	Hand.	Machine.	Hand and machine.	Hand.	Machine.	Hand and machine.	Hand.	Machine.	Hand and machine.
Per cent of number of—												
Mines.....	63.64	19.35	17.01	64.4	17.0	18.6	67.9	17.2	14.9	70.3	15.0	14.7
Miners.....	53.14	26.93	19.93	54.5	22.3	23.2	85.0	4.8	10.3	64.0	18.4	17.6
Tons.....	45.05	32.89	22.06	46.6	28.0	25.4	52.5	48.7	18.9	55.5	23.8	20.7
Kegs of powder....	70.83	11.92	17.25	72.2	8.7	19.1	78.2	9.1	12.8	77.1	7.6	15.3
Average—												
Kegs per man.....	38.33	12.73	24.22	36.2	11.4	23.3	37.5	74.8	49.5	35.7	12.2	25.7
Tons per keg.....	24.75	107.41	49.78	24.5	118.0	48.8	24.3	114.2	53.7	25.8	112.2	48.6

METHOD OF MINING.

Table 66 shows, by districts, the method of mining coal in the shipping mines of the State.

TABLE 66—*Method of mining in shipping mines—1912.*

Districts.	Blasted from the soil.		Undercut before blasting		Both methods used.		Total.	
	Mines.	Tons.	Mines.	Tons.	Mines.	Tons.	Mines.	Tons.
First.....	6	506,975	14	1,448,081	4	396,274	24	2,351,330
Second.....	5	374,391	.....	.....	1	13,040	6	387,431
Third.....	25	1,731,591	5	909,454	2	126,301	32	2,767,346
Fourth.....	17	1,823,234	.....	.....	3	510,524	20	2,333,758
Fifth.....	21	2,604,877	9	1,145,813	4	1,251,750	34	5,002,440
Sixth.....	33	5,087,728	2	840,790	.....	.....	35	5,928,518
Seventh.....	6	686,856	14	5,956,467	3	527,640	23	7,170,963
Eighth.....	13	1,848,761	11	3,364,668	5	587,610	29	5,801,039
Ninth.....	44	2,421,516	10	1,229,676	4	758,149	58	4,409,341
Tenth.....	23	1,152,659	16	1,758,373	1	112,312	40	3,023,344
Eleventh.....	7	418,266	24	6,054,518	7	1,725,688	38	8,198,472
Twelfth.....	20	3,409,978	5	1,231,756	9	2,416,887	34	7,058,621
Total.....	220	22,066,832	110	23,939,596	43	8,426,175	373	54,432,603

GENERAL SUMMARY.

Tables 67, 68, 69 and 70 summarizes all the items of all the mines of the State that have been reported by the State Inspectors of Mines for the fiscal year ended June 30, 1912.

TABLE 67—*Summary by districts, shipping and local mines, number of mines and production by grades—1912.*

Districts and mines.	Number of mines.	Total tons of coal produced.	Graded product—tons of—					
			Mine run.	Lump.	Egg.	Nut.	Pea.	Slack or waste.
First.....	60	2,612,556	661,266	1,066,579	317,651	30,265	423,130	113,665
Shipping.....	24	2,351,330	447,687	1,033,522	316,866	23,489	423,130	106,636
Local.....	36	261,226	213,579	33,057	785	6,776	.....	7,029
Second.....	105	2,250,393	110,294	1,563,992	174,278	11,912	332,889	57,028
Shipping.....	13	2,051,523	103,343	1,396,702	174,278	9,626	318,086	49,488
Local.....	92	198,870	6,951	167,290	.....	2,286	14,803	7,540

Table 67—Concluded.

Districts and mines.	Num- ber of mines.	Total tons of coal produced.	Graded product—tons of—					
			Mine run.	Lump.	Egg.	Nut.	Pea.	Slack or waste.
Third.....	101	3,015,086	491,111	1,648,325	203,942	75,664	492,554	103,490
Shipping.....	32	2,767,346	375,244	1,527,563	203,942	75,664	492,554	92,379
Local.....	69	247,740	115,867	120,762	.....	.....	.....	11,111
Fourth.....	186	2,471,286	349,282	826,346	610,141	50,333	590,382	44,802
Shipping.....	20	2,333,758	285,031	755,099	610,141	50,333	590,382	42,772
Local.....	166	137,528	64,251	71,247	.....	.....	.....	2,030
Fifth.....	71	5,174,966	1,940,961	1,513,065	58,938	210,148	693,380	758,474
Shipping.....	34	5,002,440	1,817,457	1,476,374	58,938	207,460	689,280	752,931
Local.....	37	172,526	123,504	86,691	.....	2,688	4,100	5,543
Sixth.....	40	6,014,872	1,326,371	2,201,473	796,033	283,301	1,237,594	170,100
Shipping.....	35	5,928,518	1,302,615	2,167,105	767,803	283,301	1,237,594	170,100
Local.....	5	86,354	23,756	34,368	28,230	.....	.....	.....
Seventh.....	30	7,201,251	1,668,374	3,252,973	462,334	117,334	807,016	893,220
Shipping.....	23	7,170,963	1,648,236	3,244,220	462,334	117,334	807,016	891,823
Local.....	7	30,288	20,138	8,753	.....	.....	.....	1,397
Eighth.....	40	5,854,645	1,151,090	2,504,034	403,147	324,598	1,198,505	273,271
Shipping.....	29	5,801,039	1,123,822	2,482,809	403,147	324,598	1,198,505	268,158
Local.....	11	53,606	27,268	21,225	.....	.....	.....	5,113
Ninth.....	75	4,516,548	706,041	2,425,970	90,312	142,777	870,292	281,156
Shipping.....	58	4,409,341	602,208	2,422,996	89,912	142,777	870,292	281,156
Local.....	17	107,207	103,833	2,974	400	.....	.....	.....
Tenth.....	65	3,091,428	1,583,848	743,288	115,288	101,268	474,840	72,896
Shipping.....	40	3,023,344	1,546,403	721,285	115,288	101,183	473,100	66,085
Local.....	25	68,084	37,445	22,003	.....	85	1,740	6,811
Eleventh.....	57	8,220,784	1,233,291	2,827,498	936,806	704,922	2,366,533	151,734
Shipping.....	38	8,198,472	1,224,211	2,818,444	936,806	701,202	2,366,533	151,276
Local.....	19	22,312	9,080	9,054	.....	3,720	.....	458
Twelfth.....	49	7,090,425	2,144,580	1,221,984	771,561	1,141,434	1,622,076	188,790
Shipping.....	34	7,058,621	2,126,557	1,209,533	771,111	1,141,029	1,622,076	188,315
Local.....	15	31,804	18,023	12,451	450	405	.....	475
The State.....	879	57,514,240	13,366,509	21,795,527	4,940,431	3,193,956	11,109,191	3,108,626
Shipping.....	380	56,096,695	12,602,814	21,255,652	4,910,566	3,177,996	11,088,548	3,061,119
Local.....	499	1,417,545	763,695	539,875	29,865	15,960	20,643	47,507

TABLE 68—*Summary by districts of the total tons, disposition of the total output, animals under ground and number of mines lighted by electricity.*

Districts and mines.	Total tons produced.	Disposition of output—tons.				Animals underground.		Mines lighted by electricity number.
		Shipped from mine.	Supplied to locomotives.	Sold to local trade.	Consumed and wasted at the mines.	Horses.	Mules.	
First.....	2,612,556	1,892,803	69,102	225,377	425,274	.....	504	16
Shipping.....	2,351,330	1,892,803	69,102	144,941	244,484	.....	504	16
Local.....	261,226	.....	.....	80,436	180,790	.....	.....	.....
Second.....	2,250,393	1,874,232	32,424	239,560	104,177	1	546	8
Shipping.....	2,051,523	1,874,232	32,424	47,341	97,526	1	546	8
Local.....	198,870	.....	.....	192,219	6,651	.....	.....	.....
Third.....	3,015,086	2,502,512	57,935	315,179	139,460	.....	387	17
Shipping.....	2,767,346	2,502,512	57,935	115,533	91,366	.....	387	17
Local.....	247,740	.....	.....	199,646	48,094	.....	.....	.....
Fourth.....	2,471,286	2,220,140	33,960	150,405	66,781	8	332	3
Shipping.....	2,333,758	2,220,140	33,960	16,415	63,243	8	332	3
Local.....	137,528	.....	.....	133,990	3,538	.....	.....	.....
Fifth.....	5,174,966	4,397,168	71,712	471,537	234,549	.....	441	21
Shipping.....	5,002,440	4,397,168	71,712	373,582	159,978	.....	441	21
Local.....	172,526	.....	.....	97,955	74,571	.....	.....	.....
Sixth.....	6,014,872	5,326,081	97,039	406,874	184,878	3	664	23
Shipping.....	5,928,518	5,326,081	97,039	326,115	179,283	3	664	23
Local.....	86,354	.....	.....	80,759	5,595	.....	.....	.....
Seventh.....	7,201,251	6,759,975	58,688	119,873	262,715	20	462	22
Shipping.....	7,170,963	6,759,975	58,688	91,549	260,751	20	462	22
Local.....	30,288	.....	.....	28,324	1,964	.....	.....	.....
Eighth.....	5,854,645	5,280,799	210,959	155,437	207,450	.....	492	21
Shipping.....	5,801,039	5,280,799	210,959	122,226	187,055	.....	492	21
Local.....	53,606	.....	.....	33,211	20,395	.....	.....	.....
Ninth.....	4,516,548	3,966,571	132,368	203,331	214,278	.....	424	4
Shipping.....	4,409,341	3,966,571	132,368	98,836	211,566	.....	424	4
Local.....	107,207	.....	.....	104,495	2,712	.....	.....	.....
Tenth.....	3,091,428	2,712,107	105,410	147,590	126,321	.....	314	14
Shipping.....	3,023,344	2,712,107	105,410	84,265	121,562	.....	314	14
Local.....	68,084	.....	.....	63,325	4,759	.....	.....	.....

Table 68—Concluded.

Districts and mines.	Total tons produced.	Disposition of output—tons.				Animals underground.		Mines lighted by electricity number.
		Shipped from mine.	Supplied to locomotives.	Sold to local trade.	Consumed and wasted at the mines.	Horses.	Mules.	
Eleventh.....	8,220,784	7,876,035	47,656	111,133	185,960	5	565	31
Shipping.....	8,198,472	7,876,035	47,656	89,091	185,690	5	565	31
Local.....	22,312	.....	.....	22,042	270	.....	.....	.....
Twelfth.....	7,090,425	6,693,959	7,601	69,382	319,483	1	575	27
Shipping.....	7,058,621	6,693,959	7,601	39,543	317,518	1	575	27
Local.....	31,804	.....	.....	29,839	1,965	.....	.....	.....
The State.....	57,514,240	51,502,382	924,854	2,615,678	2,471,326	38	5,706	207
Shipping.....	56,096,695	51,502,382	924,854	1,549,437	2,120,022	38	5,706	207
Local.....	1,417,545	.....	.....	1,066,241	351,304	.....	.....	.....

TABLE 69—Summary by districts, tons mined by hand and machines, price for mining, machines, powder—1912.

Districts and mines.	Tons mined by—		Average price paid per ton for—		Machines.		Powder.	
	Hand.	Machine.	Hand mining.	Machine mining.	Number of mines using.	Number in use.	Used for blasting coal.	For other purposes.
First.....	2,605,756	6,800	\$0.871	.....	1	1	26,754	683
Shipping....	2,351,330	.....	\$0.881	.....	.....	.....	18,413	586
Local.....	254,426	6,800	0.71	.....	1	1	8,341	97
Second.....	2,240,893	9,500	\$0.85	\$0.525	1	2	26,348	330
Shipping....	2,042,023	9,500	\$0.838	\$0.525	1	2	19,664	330
Local.....	198,870	.....	9.979	.....	.....	.....	6,684	.....
Third.....	2,762,628	252,458	\$0.576	\$0.576	5	21	89,010	385
Shipping....	2,514,888	252,458	\$0.576	\$0.576	5	21	77,931	385
Local.....	247,740	.....	0.762	.....	.....	.....	11,079	.....
Fourth.....	2,075,753	395,533	\$0.673	\$0.58	3	23	120,941	232
Shipping....	1,938,225	395,533	\$0.655	\$0.58	3	23	115,579	232
Local.....	137,528	.....	0.935	.....	.....	.....	5,362	.....
Fifth.....	4,262,235	912,731	\$0.597	\$0.49	7	51	157,000	389
Shipping....	4,089,709	912,731	\$0.594	\$0.49	7	51	151,402	389
Local.....	172,526	.....	0.681	.....	.....	.....	5,598	.....

Table 69—Concluded.

Districts and mines.	Tons mined by—		Average price paid per ton for—		Machines.		Powder.	
	Hand.	Machine.	Hand mining.	Machine mining.	Number of mines using.	Number in use.	Used for blasting coal.	For other purposes.
Sixth.....	5,174,082	840,790	\$0.596	\$0.51	2	29	252,472	225
Shipping....	5,087,728	840,790	\$0.596	\$0.51	2	29	248,503	225
Local.....	86,354	.....	0.59	.....	.....	.....	3,970	.....
Seventh.....	1,579,282	5,621,969	\$0.58	\$0.51	17	323	91,740	633
Shipping....	1,566,468	5,604,495	\$0.58	\$0.51	16	322	91,359	633
Local.....	12,814	17,474	0.731	.....	1	1	381	.....
Eighth.....	2,156,400	3,698,245	\$0.577	\$0.509	17	235	112,455	36
Shipping....	2,103,994	3,697,045	\$0.576	\$0.509	16	232	110,733	36
Local.....	52,406	1,200	0.629	0.51	1	3	1,722	.....
Ninth.....	2,288,726	2,227,862	\$0.58	\$0.525	18	178	100,943	4
Shipping....	2,189,769	2,219,612	\$0.58	\$0.525	17	176	97,694	4
Local.....	98,957	8,250	0.58	0.56	1	2	3,249	.....
Tenth.....	1,397,722	1,693,706	\$0.555	\$0.498	18	130	67,801	57
Shipping....	1,238,219	1,685,125	\$0.555	\$0.497	17	127	65,711	57
Local.....	59,503	8,581	0.609	0.62	1	3	2,090	.....
Eleventh.....	8,857,742	7,335,042	\$0.544	\$0.469	33	390	80,969	.....
Shipping....	863,430	7,335,042	\$0.54	\$0.469	33	390	*80,122	.....
Local.....	22,312	.....	0.675	.....	.....	.....	847	.....
Twelfth.....	4,535,002	2,555,423	\$0.541	\$0.47	15	198	187,014	66
Shipping....	4,503,198	2,555,423	\$0.54	\$0.47	15	198	186,203	66
Local.....	31,804	.....	0.602	.....	.....	.....	811	.....
The State.....	31,964,221	25,550,059	\$0.641	\$0.496	137	1,581	1,313,448	3,040
Shipping. ..	30,588,981	25,507,754	\$0.636	\$0.496	132	1,571	1,263,314	2,943
Local.....	1,375,240	42,305	0.764	0.494	5	10	50,134	97

* Pounds of permissible explosives 328,075.

TABLE 70—*Summary by districts, employees, days in operation, casualties—1912.*

Districts. and mines.	Total number employes.	Employees.				Average days of operation.	Casualties.	
		Miners.	Others under ground.	Boys under ground.	All above ground.		Killed.	Injured.
First.....	5,936	4,344	924	102	566	189	8	68
Shipping.....	5,437	3,978	882	93	484	202	7	75
Local.....	499	366	42	9	52	196	1	3
Second.....	5,088	3,731	817	122	418	162	6	88
Shipping.....	4,529	3,270	813	121	325	109	4	86
Local.....	559	461	4	1	93	144	2	2
Third.....	5,264	3,674	997	101	492	172	7	21
Shipping.....	4,871	3,364	997	94	416	205	6	21
Local.....	393	310	.....	7	76	157	1	.....
Fourth.....	4,095	2,689	1,016	42	348	146	7	5
Shipping.....	3,540	2,207	1,016	42	275	183	5	4
Local.....	555	482	.....	.....	73	141	2	1
Fifth.....	7,018	4,337	1,994	121	566	178	21	92
Shipping.....	6,707	3,128	1,970	112	497	185	21	92
Local.....	311	209	24	9	69	172	.....	.....
Sixth.....	8,259	5,243	2,184	171	661	169	6	24
Shipping.....	8,126	5,162	2,184	168	622	174	6	24
Local.....	133	91	.....	3	39	134	.....	.....
Seventh.....	7,377	2,040	4,599	149	589	148	23	84
Shipping.....	7,322	2,004	4,598	149	571	183	23	84
Local.....	55	36	1	.....	18	177	.....	.....
Eighth.....	7,415	2,352	4,141	142	680	172	20	108
Shipping.....	7,331	2,389	4,141	142	659	170	20	108
Local.....	84	64	.....	.....	21	180	.....	.....
Ninth.....	5,856	2,605	2,637	87	527	132	13	53
Shipping.....	5,701	2,490	2,637	87	487	130	13	53
Local.....	155	115	.....	.....	40	190	.....	.....
Tenth.....	5,204	2,555	2,071	96	492	141	6	21
Shipping.....	5,061	2,475	2,037	95	454	135	5	20
Local.....	143	80	24	1	38	150	1	1
Eleventh.....	9,377	1,010	7,309	161	897	179	40	123
Shipping.....	9,321	966	7,309	159	887	194	40	123
Local.....	56	44	.....	2	10	148	.....	.....

Table 70—Concluded.

CALHOUN COUNTY.

[illegible]

CHRISTIAN COUNTY.

[illegible]

CLINTON COUNTY.

[illegible]

FRANKLIN COUNTY.

[illegible]

Table 71—Continued.

FULTON COUNTY.

Number.	Name of operator.	Post-office address of mine.	Geological number of seam.	Physical character of mines.							Total tons.
				Depth of coal below the surface—feet.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, electric.	Mining—hand, machine, both.	
1	Maplewood Colliery Co., No. 2.	Farmington	5	155	4.0	Sh.	St.	P. R.	M. C.	Hd.	303,500
2	Big Creek Coal Co., No. 2	St. David	5	60	4.6	Dr.	do.	do.	Motor	Both.	271,729
3	Monmouth C. M. Co., No. 1.	Brereton	5	158	4.8	Sh.	do.	do.	M. M.	Hd.	206,430
4	Big Creek Coal Co., No. 4	Dunfermline	5	90	4.8	do.	do.	do.	Motor	Both.	190,460
5	Alden Coal Co., No. 6	Norris	5	176	4.0	do.	do.	do.	Mule.	Hd.	166,179
6	Canton Coal M. Co.	Canton	5	60	4.8	do.	do.	do.	M. M.	do.	158,817
7	Norris Coal M. Co., Norris	Norris	5	185	4.6	do.	do.	do.	Mule.	do.	156,331
8	Eagle Mining Co., Eagle	Canton	5	100	5.0	do.	do.	do.	M. M.	do.	132,360
9	Simmons Coal Co., Simmon	do.	5	126	4.10	do.	do.	do.	Mule.	do.	126,463
10	Star Coal Co., No. 1	Cuba	5	90	4.10	Sl.	do.	do.	M. C.	do.	101,595
11	Maplewood Coal Co., No. 1	Farmington	5	120	4.0	Sh.	do.	do.	M. M.	do.	85,980
12	Alden Coal Co., No. 5	do.	5	171	4.0	do.	do.	do.	Mule.	do.	84,829
13	National Coal M. Co., Nat.	do.	5	100	4.0	do.	do.	do.	do.	do.	73,471
14	Star Coal Co., No. 3	Cuba	5	60	4.10	do.	do.	do.	do.	do.	69,109
15	Star Coal Co., No. 2	do.	5	70	5.0	Sl.	do.	do.	M. C.	do.	68,558
16	Silver Creek Col. Co., No. 1	Farmington	5	50	4.4	Sh.	do.	do.	Mule.	Both.	48,335
17	Star Coal Co., No. 1	Fiatt	5	85	5.0	do.	do.	do.	do.	Hd.	39,113
18	Spoon River Coal., No. 1	Mayton	5	40	4.6	do.	do.	do.	do.	do.	27,444
19	Coal Creek Mining Co.	Fairview	5	60	4.10	Dr.	do.	do.	do.	do.	13,071
20	Big Creek Coal Co., No. 5	Cuba	5	50	4.8	Sh.	do.	do.	do.	do.	9,984
21	George Westerby	Farmington	5	125	4.0	do.	do.	do.	Mule.	do.	7,750
22	W. C. Passent	Ellisville	1	40	4.0	do.	do.	do.	do.	do.	6,500
23	Neil Baxter	Canton	5	40	4.8	do.	do.	do.	do.	do.	6,250
24	Landis and Wages	do.	5	60	4.6	Dr.	do.	do.	do.	do.	5,720
25	Joe McLaughlin	do.	5	30	4.8	Sh.	Ho.	do.	do.	do.	3,200
26	E. G. Boder	Astoria	1	40	6.0	do.	do.	do.	do.	do.	3,000
27	Jack Walch	Cuba	5	100	5.0	Dr.	do.	do.	do.	do.	3,000
28	C. Q. Falkenstein	Astoria	1	30	6.0	Sh.	do.	do.	Hd.	do.	2,500
29	Adams and Irwin	Canton	5	50	4.8	Sl.	St.	do.	Mule.	do.	2,160
30	Yas. Yocum	Lewistown	5	75	2.6	Sh.	Ho.	do.	Hd.	do.	2,050
31	E. C. Angle	Cuba	5	60	4.8	Dr.	Hd.	do.	do.	do.	2,020
32	Sy Hilton	do.	5	75	4.6	Sl.	do.	do.	Mule.	do.	1,600
33	O. W. Davis	Lewistown	2	45	2.6	Sh.	Ho.	do.	Hd.	do.	1,500
34	Nicholas Bennett	Cuba	5	35	4.8	Sl.	do.	do.	do.	do.	1,500
35	E. L. Bishop	do.	5	75	5.0	Dr.	Hd.	do.	Mule.	do.	1,425
36	A. J. Gunnett	Fairview	5	65	4.8	do.	do.	do.	Hd.	do.	1,355
37	Bath Bros	St. David	5	60	5.0	do.	do.	do.	do.	do.	1,270
38	W. C. Anderson	Canton	5	75	4.6	Sh.	Ho.	do.	Mule.	do.	1,250
39	W. E. Morgrant	do.	5	65	5.0	Dr.	do.	do.	do.	do.	1,250
40	Henry Vonack	Lewistown	5	45	5.0	Sl.	do.	do.	Hd.	do.	1,200
41	Joseph Wilson	Astoria	2	Dr.	2.6	Dr.	Hd.	do.	do.	do.	1,200
42	Elmer Delong	Fairview	6	45	4.6	do.	do.	do.	do.	do.	1,100
43	Rand and Co.	St. David	5	70	5.0	Sl.	do.	do.	Mule.	do.	1,000
44	Kingsley and Bitner	Glasford	5	20	5.0	Dr.	do.	do.	do.	do.	1,000
45	Frank Hubble	Avon	5	65	4.10	Sl.	Ho.	do.	Hd.	do.	1,000
46	Ed. Clarkson	Fairview	5	85	4.2	do.	Hd.	do.	do.	do.	1,000
47	Dan Copliger	Cuba	5	30	5.0	Dr.	do.	do.	do.	do.	1,000
48	John Johnson	St. David	5	75	5.0	Sl.	do.	do.	do.	do.	1,000
49	G. F. Memmnis Bros	Breeds	5	75	4.10	Dr.	do.	do.	do.	do.	960
50	A. M. Eyman	Lewistown	2	40	2.6	do.	do.	do.	do.	do.	950
51	Joseph McCanant	Table Grove	5	50	5.0	do.	do.	do.	do.	do.	900
52	John Gillett	Glasford	5	65	5.0	do.	do.	do.	do.	do.	900
53	P. Taylor	do.	5	70	5.0	do.	do.	do.	do.	do.	900
54	E. S. Mason	Canton	5	85	5.0	do.	do.	do.	do.	do.	900
55	C. F. Romden	Cuba	5	60	5.0	do.	do.	do.	do.	do.	872
56	John Whitehead	Maple Mills	5	50	4.10	do.	do.	do.	do.	do.	800
57	Will Johnson	Cuba	5	50	5.0	do.	do.	do.	do.	do.	800
58	Fred Nauneker	Marietta	2	40	2.6	Sh.	Ho.	do.	do.	do.	800
59	Harvey Johnson	Breeds	5	75	5.0	Dr.	Hd.	do.	do.	do.	800
60	Brickert & Newberry	Lewistown	2	50	2.6	do.	do.	do.	do.	do.	750
61	Silas Simpson	Cuba	5	100	5.0	do.	do.	do.	do.	do.	750

Table 71—Continued.

FULTON COUNTY—Continued.

Number.	Name of operator.	Post-office address of mine.	Physical character of mines.								Total tons.
			Geological number of seam.	Depth of coal below the surface—feet.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, electric.	Mining—hand, machine, both.	
62	Jas. Olliver.....	Marietta.....	2	60	2.6	Dr.	Hd.	P. R.	Hd...	Hd...	700
63	Don. Valentine.....	Summun.....	1	15	3.0	do.	do.	do.	do.	do.	700
64	Ross Parr.....	Astoria.....	1	30	6.0	Sh.	Ho.	do.	do.	do.	700
65	Henry Vice.....	Fairview.....	5	65	4.10	Dr.	Hd.	do.	do.	do.	680
66	E. H. Miller.....	Marietta.....	2	70	2.6	do.	do.	do.	do.	do.	650
67	Lafe Swearinger.....	Table Grove.....	2	65	2.6	do.	do.	do.	do.	do.	650
68	William Taylor.....	Canton.....	5	35	5.0	Sl.	Ho.	do.	do.	do.	620
69	W. A. Sheets.....	Fairview.....	5	45	4.8	Dr.	Hd.	do.	do.	do.	615
70	Geo. H. Stambaugh.....	Summun.....	1	42	5.10	Sh.	Ho.	do.	do.	do.	600
71	Thos. Anderson.....	Marietta.....	2	45	2.6	Dr.	Hd.	do.	do.	do.	600
72	Jess Lindsey.....	Lewistown.....	2	70	2.6	do.	do.	do.	do.	do.	600
73	W. F. McBride.....	Fairview.....	6	50	4.6	do.	do.	do.	do.	do.	600
74	John Stufflebean.....	Lewistown.....	2	65	2.6	do.	do.	do.	do.	do.	600
75	White & Price.....	Canton.....	5	50	5.0	Sl.	do.	do.	do.	do.	600
76	J. W. Williams.....	Fiatt.....	5	60	5.0	Dr.	do.	do.	do.	do.	600
77	D. B. King.....	Marietta.....	2	65	2.6	do.	do.	do.	do.	do.	600
78	Chas. Taylor.....	Avon.....	5	60	4.6	Sl.	Ho.	do.	do.	do.	600
79	Joseph Bartley.....	Canton.....	5	60	4.10	Dr.	Hd.	do.	do.	do.	600
80	W. M. Robb & Son.....	Norris.....	5	75	4.2	Sl.	St.	do.	do.	do.	575
81	Geo. Smear.....	Fairview.....	5	60	4.11	Dr.	Hd.	do.	do.	do.	520
82	W. M. Lee.....	Ipava.....	5	60	4.6	do.	do.	do.	do.	do.	500
83	C. W. Dair.....	Banner.....	5	120	5.0	do.	do.	do.	do.	do.	500
84	W. M. Morris.....	Norris.....	6	45	4.6	do.	do.	do.	do.	do.	500
85	H. H. Muir.....	Fairview.....	5	60	5.0	do.	do.	do.	do.	do.	500
86	Guy Muchaft.....	Fiatt.....	5	65	5.0	do.	do.	do.	do.	do.	500
87	M. J. Johnson.....	Canton.....	5	50	5.0	do.	do.	do.	do.	do.	500
88	Frank Krugann.....	Ipava.....	2	65	2.6	do.	do.	do.	do.	do.	450
89	N. C. Morgan.....	Cuba.....	5	45	4.11	do.	do.	do.	do.	do.	440
90	French & Hedge.....	Breeds.....	5	90	4.6	do.	do.	do.	do.	do.	435
91	J. R. Lingenfelter.....	Canton.....	5	50	4.6	do.	do.	do.	do.	do.	420
92	Edward Stanley.....	Maple Mills.....	5	40	4.10	do.	do.	do.	do.	do.	410
93	G. A. Brush.....	Marietta.....	2	65	2.6	do.	do.	do.	do.	do.	400
94	Lewis Clark.....	Lewistown.....	2	70	2.6	do.	do.	do.	do.	do.	400
95	J. H. Fouts.....	Maple Mills.....	5	50	4.10	do.	do.	do.	do.	do.	400
96	Furnace & Diamond.....	Astoria.....	2	100	2.6	do.	do.	do.	do.	do.	396
97	Chas. Cole.....	Avon.....	2	65	2.6	do.	do.	do.	do.	do.	350
98	L. Crusan.....	Lewistown.....	2	75	2.6	do.	do.	do.	do.	do.	350
99	B. R. Kelley.....	Cuba.....	5	60	5.0	do.	do.	do.	do.	do.	350
100	R. C. Green.....	Ipava.....	2	40	2.6	do.	do.	do.	do.	do.	350
101	Will Martin.....	Cuba.....	5	120	5.0	do.	do.	do.	do.	do.	350
102	Sylvester Wade.....	Canton.....	5	65	4.6	Sl.	do.	do.	do.	do.	320
103	Ernie Emanuelson.....	Maple Mills.....	5	60	4.10	Dr.	do.	do.	do.	do.	300
104	Geo. Carrison.....	Ipava.....	2	45	2.6	do.	do.	do.	do.	do.	300
105	J. H. Pollett.....	Cuba.....	5	120	5.0	do.	do.	do.	do.	do.	300
106	Dan. Ballinger.....	do.....	5	125	5.0	do.	do.	do.	do.	do.	300
107	Johnson & Lee.....	Breeds.....	5	80	5.0	do.	do.	do.	do.	do.	300
108	Harry Ellsworth.....	Lewistown.....	2	60	2.6	do.	do.	do.	do.	do.	300
109	M. R. Parks.....	Glasford.....	5	75	4.6	do.	do.	do.	do.	do.	300
110	Will Hubble.....	Avon.....	2	60	3.0	Sh.	Ho.	do.	do.	do.	300
111	Wm Martin.....	Cuba.....	5	50	4.10	Dr.	Hd.	do.	do.	do.	300
112	James Conn.....	Ipava.....	5	60	4.6	Sh.	Ho.	do.	do.	do.	250
113	Frank Foutch.....	Astoria.....	2	60	2.8	Dr.	Hd.	do.	do.	do.	250
114	H. A. Wilson.....	Cuba.....	5	125	4.6	do.	do.	do.	do.	do.	250
115	Martin Smith.....	Marietta.....	2	65	2.6	do.	do.	do.	do.	do.	250
116	Herbert Wilcoxen.....	Lewistown.....	2	65	2.6	do.	do.	do.	do.	do.	250
117	J. R. Collins.....	do.....	2	65	2.6	do.	do.	do.	do.	do.	250
118	W. E. Hornbeck.....	Rapatee.....	5	75	4.4	Sl.	Ho.	do.	do.	do.	200
119	Betner & Kingsley.....	Glasford.....	5	65	4.10	do.	Hd.	do.	do.	do.	200
120	E. E. Post.....	Cuba.....	5	75	5.0	Dr.	do.	do.	do.	do.	180
121	Dan Weise.....	Ipava.....	5	65	4.6	do.	do.	do.	do.	do.	175
122	J. D. Chute.....	Cuba.....	5	50	5.0	do.	do.	do.	do.	do.	160

Table 71—Continued.

HANCOCK COUNTY.

Number.	Name of operator.	Post-office address of mine.	Physical character of mines.								Total tons.
			Geological number of seam.	Depth of coal below the surface—feet.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, electric.	Mining—hand, machine, both.	
1	Meredith Bros.	Augusta	2	63	2.6	Sh.	Ho.	P. R.	Hd.	Hd.	2,920
	Total—1 mine										2,920

HENRY COUNTY.

1	Kewanee Coal Co., No. 2	Kewanee	6	100	4.0	Sh.	St.	P. R.	Mule	Hd.	42,995
2	Kewanee Coop. Coal Co.	do	6	60	4.0	do.	do.	do.	do.	do.	13,100
3	Fred Hensy	do	6	50	4.0	Sl.	do.	do.	Mule	do.	7,300
4	Matt Atkinson	do	6	18	4.0	do.	Ho.	do.	Hd.	do.	5,160
5	Grice Coal Co.	do	6	45	4.0	do.	St.	do.	do.	do.	4,798
6	E. S. Barlow	do	6	70	4.0	Sh.	do.	do.	do.	do.	2,078
7	Todd Bros.	do	6	40	4.0	Sl.	Ho.	do.	do.	do.	1,400
8	Herman Hintz & Bro.	Geneseo	1	40	4.0	Sh.	do.	do.	do.	do.	1,160
9	Wilson & Swan	Kewanee	6	45	4.6	Sl.	St.	do.	do.	do.	1,100
10	Chilton & Boggs	do	6	50	4.0	do.	do.	do.	do.	do.	1,020
11	Jas Kemerling & Son	do	6	18	4.0	Sh.	Ho.	do.	do.	do.	1,000
12	Bates Bros.	do	6	68	4.0	do.	do.	do.	do.	do.	954
13	Frank E. Lane	Cambridge	3	112	2.8	do.	St.	do.	Mule	do.	898
14	Joseph Engle & Son	Galva	6	16	3.0	Sl.	do.	do.	Hd.	do.	880
15	Leo Malven	Kewanee	6	30	4.0	do.	Ho.	do.	do.	do.	700
16	D. O. Loy	Atkinson	3	34	3.0	Sh.	St.	do.	do.	do.	560
17	Donahoo Coal Co.	Moline	1	15	5.0	Sl.	do.	do.	Mule	do.	540
18	Rudolph Markle	Briar Bluff	1		3.6	Dr.	Ho.	do.	do.	do.	538
19	J. F. Kincade	do	1		4.6	do.	do.	do.	Hd.	do.	532
20	Joseph Carter	Kewanee	6	28	4.0	Sh.	do.	do.	do.	do.	270
21	Kershaw & Kay	Briar Bluff	1		3.0	Dr.	do.	do.	Mule	do.	89
22	G. Wells	do	1		4.0	do.	do.	do.	do.	do.	70
23	Fred Kershaw	do	1		4.0	do.	Hd.	do.	do.	do.	29
	Total—23 mines										87,171

JACKSON COUNTY.

1	Big Muddy C. & I. Co., No. 9.	Murphysboro	1&2	114	7.0	Sh.	St.	P. R.	M. M.	Mac.	216,445
2	Muddy Valley Mining Co.	Hallidayboro	6	165	9.0	do.	do.	do.	Cable	Hd.	173,242
3	Big M. C. & I. Co., Harrison	Murphysboro	1&2	160	6.0	do.	do.	do.	M. M.	Mac.	114,271
4	Gartside Coal Co., No. 4.	do	6	127	7.0	do.	do.	do.	Mule	do.	68,977
5	Gus Blair B. M. C. Co., No. 1.	do	1&2	138	6.0	do.	do.	do.	C. M.	do.	64,189
6	J. B. Kreikmeier C. Co.	DeSoto	7	80	9.0	do.	do.	do.	Mule	do.	26,749
7	Gus Blair B. M. C. Co., No. 2.	Murphysboro	1&2	110	3.4	do.	do.	do.	do.	do.	23,984
8	Schmidgall Coal Co.	do	6	100	3.2	do.	do.	do.	do.	do.	10,636
9	J. B. Schimpf	Vergennes	6	51	4.6	do.	do.	do.	do.	Hd.	8,300
10	J. B. Wood	Carbondale	7	70	6.6	do.	do.	do.	do.	do.	6,000
11	H. S. Phillips	do	6	22	7.0	do.	do.	do.	do.	do.	3,200
12	George W. Patrick	do	6	35	6.0	Sl.	do.	do.	do.	do.	2,000
13	Wm. Bullar	DeSoto	6	30	7.0	Sh.	do.	do.	do.	do.	1,500
14	Phillips & Johnson M. Co.	Carbondale	6	32	4.0	do.	do.	do.	do.	do.	1,145
15	Ab. Boden & J. Craig	DeSoto	1	38	8.6	do.	do.	do.	do.	do.	1,100
16	Schimpf & Craig	Ava	6	27	5.6	do.	do.	do.	do.	do.	800
17	W. F. Johnson	do	2	25	4.0	do.	do.	do.	do.	do.	800
18	W. R. Campbell	Mathews	6	17	3.6	do.	do.	do.	do.	do.	508
19	Mike Kirby	Campbell Hill	6	10	3.6	do.	do.	do.	do.	do.	253
20	Bane & Ellace	DeSoto	6	54	10.0	do.	do.	do.	do.	do.	150
21	V. L. Church	Ava	6	24	5.6	do.	do.	do.	do.	do.	125
	Total—21 mines										724,374

Table 71—Continued.

MOULTRIE COUNTY.

Number.	Name of operator.	Post-office address of mine.	Physical character of mines.								Total tons.
			Geological number of seam.	Depth of coal below the surface—feet.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand mule, cable, electric.	Mining—hand, machine, both.	
1	Lovington C. M. Co., No. 1...	Lovington.....	6	900	8.0	Sh..	St..	P. R.	Mule.	Hd...	54,162
	Total—1 mine.....	.....									54,162

MORGAN COUNTY.

1	Fisher Bros.....	Murraysville...	6	63	4.0	Sh..	Hd.	P. R.	Hd...	Hd...	1,085
	Total—1 mine.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,085

PEORIA COUNTY.

1	Clark C. & C. Co., No. 2.....	Peoria.....	5	105	4.0	Sh..	St..	P. R.	M. M.	Hd...	253,414
2	Crescent Coal Co., No. 1.....	do.....	5	200	4.6	do..	do..	do..	do..	do..	180,325
3	Deming & Cruickshank, No. 3.	do.....	5	80	4.3	do..	do..	do..	Motor	do..	109,648
4	Newsam Bros., No. 3.....	Kingston Mines	5	....	4.6	do..	do..	do..	do..	do..	108,233
5	Wolschlog Coöpn. Coal Co.....	Peoria.....	5	170	4.0	do..	do..	do..	do..	do..	87,841
6	Applegate & Lewis C. Co., H..	Hanna City.....	5	250	4.2	do..	do..	do..	M. M.	Mac..	51,503
7	Brewster & Evans C. Co., W..	Peoria.....	5	144	4.0	Sl..	do..	do..	Motor	Motor	49,946
8	Olympia C. & M. Co., Olympia	Edwardsville...	5	....	4.0	Dr..	do..	do..	M. C.	Hd...	42,900
9	Collier Coöpn. Coal Co.....	Peoria.....	5	120	4.6	Sh..	do..	do..	M. C.	do..	38,220
10	Mapleton C. Co., Mapleton.....	Mapleton.....	5	160	4.8	Sl..	do..	do..	Mule.	do..	24,221
11	Warsaw C. Co., Edwards.....	Edwards.....	5	85	4.3	Dr..	do..	do..	M. M.	do..	22,312
12	Lancaster L. C. & T. Co., K. M.	Kingston Mines	5	....	4.6	do..	do..	do..	Mule.	do..	21,402
13	Isaac Wantling & Co.....	Peoria.....	5	....	4.0	do..	do..	do..	do..	do..	20,972
14	German Coal Co.....	Mapleton.....	5	....	4.6	Sl..	do..	do..	M. C.	Mac..	15,214
15	F. P. Schmidt.....	Peoria.....	5	....	4.2	Dr..	Ho.	do..	Mule.	Hd...	45,361
16	Winter Coal Co.....	Bartonville...	5	100	4.6	Sh..	St..	do..	do..	do..	27,000
17	Treasure Coal Co.....	do.....	5	182	4.6	do..	do..	do..	do..	do..	15,471
18	Hibberd & Sneddon & Co.....	Peoria.....	5	26	4.4	Sl..	do..	do..	M. C.	do..	9,574
19	Fisher & Blank.....	do.....	5	100	4.0	do..	do..	do..	Cable	do..	8,000
20	Mohn Coal Co.....	do.....	5	100	4.0	Sh..	do..	do..	Mule.	do..	7,702
21	Limestone Coal Co.....	do.....	5	130	4.6	do..	do..	do..	do..	do..	5,945
22	John Meyer.....	Chillicothe...	5	25	2.9	Sl..	Ho.	do..	Hd...	do..	5,165
23	P. Martin.....	Peoria.....	5	50	4.2	Sh..	St..	do..	do..	do..	5,100
24	Heitzman & Smith C. Co.....	Mapleton.....	5	6	4.6	Sl..	do..	do..	do..	do..	4,587
25	Collier Bros.....	Chillicothe...	5	87	4.0	do..	do..	do..	Mule.	do..	4,449
26	Thomas Short.....	Brimfield.....	5	....	2.8	Dr..	Ho.	do..	Hd...	do..	4,000
27	R. Taylor & Sons.....	do.....	5	75	4.8	Sh..	do..	do..	do..	do..	3,867
28	James Dalton.....	Elmwood.....	5	110	3.2	do..	do..	do..	do..	do..	3,200
29	Bell Coal Co.....	Peoria.....	5	....	4.0	Dr..	Ho.	do..	do..	do..	3,000
30	Keller Coal Co.....	Bartonville...	5	15	4.4	Sl..	St..	do..	Mule.	do..	3,000
31	Fair Oaks Coal Co.....	Peoria.....	5	90	4.0	Sh..	do..	do..	do..	do..	2,500
32	Louis A. Schmidt.....	do.....	5	....	4.4	Sl..	do..	do..	do..	do..	2,115
33	Cahill & Strong.....	Brimfield.....	5	75	4.8	Sh..	do..	do..	Hd...	do..	2,100
34	Carl Goetz.....	Peoria.....	5	65	4.6	do..	do..	do..	do..	do..	2,007
35	John H. Smith.....	Glasford.....	5	110	4.8	Sl..	do..	do..	do..	do..	1,900
36	Baker Bros.....	Kingston Mines	5	150	4.6	Dr..	Ho.	do..	do..	do..	1,308
37	George Vicory.....	Peoria.....	5	300	4.0	do..	do..	do..	Mule.	do..	1,275
38	Robert Scott.....	Oak Hill.....	5	....	3.6	do..	do..	do..	do..	do..	1,200
39	Henning & Clarkson.....	Edwards.....	5	....	4.0	do..	Dr.	do..	do..	do..	1,060
40	Thomas Jones.....	Peoria.....	5	....	4.0	Sl..	Ho.	do..	Hd...	do..	1,019
41	J. W. Miller.....	Laura.....	5	33	4.0	Sh..	do..	do..	Mule.	do..	1,003
42	Frank Martin.....	Chillicothe...	5	....	3.0	Dr..	Hd.	do..	do..	do..	1,000

PEORIA COUNTY—*Concluded.*

PERRY COUNTY.

[illegible]

Table 71—Continued.

Table 71—Continued.

SALINE COUNTY.

Number.	Name of operator.	Post-office address of mine.	Physical character of mines.								Total tons.
			Geological number of seam.	Depth of coal below the surface—feet.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, electric.	Mining—hand, machine, both.	
1	O'Gara Coal Co., No. 9.	Harrisburg.	5	152 6.10	Sh.	St.	P. R.	Motor	M. H.		523,583
2	Saline Co. Coal Co., No. 2.	Ledford.	5	100 7.0	do.	do.	do.	Mule.	Mac.		498,223
3	O'Gara Coal Co., No. 3.	Harrisburg.	5	233 6.1	do.	do.	do.	Motor	M. H.		383,685
4	O'Gara Coal Co., No. 1.	do.	5	311 5.3	do.	do.	do.	do.	do.		286,318
5	O'Gara Coal Co., No. 10.	do.	5	406 4.8	do.	do.	do.	do.	Mac.		265,945
6	Harrisburg South. C. Co. No. 1	Eldorado.	5	336 5.8	do.	do.	do.	do.	M. H.		265,136
7	Wasson Coal Co., No. 1.	Harrisburg.	5	320 5.6	do.	do.	do.	do.	Mac.		259,421
8	O'Gara Coal Co. No. 4.	do.	5	213 7.0	do.	do.	do.	do.	do.		244,900
9	O'Gara Coal Co., No. 14.	do.	5	146 6.4	do.	do.	do.	do.	do.		238,076
10	Saline Co. Coal Co., No. 3.	do.	5	267 7.0	do.	do.	do.	do.	do.		235,326
11	Eldorado C. M. Co., No. 1.	Eldorado.	5	450 5.0	do.	do.	do.	Mule.	M. H.		231,966
12	O'Gara Coal Co., No. 15.	Harrisburg.	5	58 5.1	do.	do.	do.	Motor	do.		193,151
13	O'Gara Coal Co., No. 11.	do.	5	392 4.8	do.	do.	do.	do.	Mac.		134,619
14	Saline Co. Coal Co., No. 1.	Ledford.	5	150 6.6	do.	do.	do.	Mule.	do.		105,667
15	O'Gara Coal Co., No. 7.	Harrisburg.	5	76 6.6	do.	do.	do.	Motor	M. H.		91,008
16	O'Gara Coal Co., No. 8.	do.	5	393 4.8	do.	do.	do.	do.	Mac.		68,280
17	O'Gara Coal Co., No. 12.	do.	5	415 5.0	do.	do.	do.	do.	do.		31,504
18	St. Louis C. & C. Co., No. 1.	Galatia.	5	340 5.8	do.	do.	do.	Mule.	do.		20,000
19	W. R. Henshaw.	Carrier Mills.	5	50 5.6	do.	do.	do.	do.	Hd.		5,000
20	T. S. Thompson.	Mitchellsville.	5	150 3.6	do.	do.	do.	do.	do.		3,000
21	Job. Ingram.	Harrisburg.	5	100 4.8	do.	do.	do.	do.	do.		845
22	Moore & McDonald.	Carrier Mills.	5	33 3.8	do.	do.	do.	do.	do.		700
23	S. J. Moore.	Equality.	5	150 4.6	do.	do.	do.	Hd.	do.		600
24	Hazel and Steele.	do.	5	125 4.0	do.	do.	do.	do.	do.		600
25	John Cogdill.	Stonefort.	5	20 3.6	do.	do.	do.	do.	do.		500
26	L. G. Dunn.	do.	5	125 3.0	do.	do.	do.	do.	do.		250
27	Southern & Lynch.	Ledford.	5	25 4.6	do.	do.	do.	do.	do.		150
28	Yates and Reynold.	Equality.	5	150 4.0	do.	do.	do.	do.	do.		100
29	Ollison & Edwards.	do.	5	50 4.0	do.	do.	do.	do.	do.		50
30	J. L. Dunn.	Stonefort.	5	90 3.0	do.	do.	do.	do.	do.		24
Total—30 mines.											4,088,575

SANGAMON COUNTY.

1	C. W. & V. Coal Co., No. 1.	Thayer.	6	292 7.11	Sh.	St.	P. R.	Motor	Mac.		486,140
2	Jones & Adams C. Co.	Springfield.	5	230 6.0	do.	do.	do.	do.	Hd.		472,380
3	Springfield C. M. Co., No. 2.	Riverton.	5	238 5.10	do.	do.	do.	do.	do.		388,937
4	Ill. Midland C. Co., No. 5.	Pawnee.	6	323 6.0	do.	do.	do.	do.	do.		382,588
5	Madison Coal Corp. No. 6.	Divernon.	6	335 8.0	do.	do.	do.	do.	Mac.		354,650
6	Black Diamond Coal Co.	Auburn.	6	302 8.0	do.	do.	do.	do.	Hd.		311,600
7	Woodside Coal Co.	Springfield.	5	245 5.10	do.	do.	do.	do.	do.		269,354
8	Ill. Midland Coal Co., No. 6.	Sherman.	5	204 6.0	do.	do.	do.	do.	do.		265,683
9	Capital Coal Co., No. 2.	Springfield.	5	240 6.0	do.	do.	do.	do.	do.		222,792
10	Chi.-Springfield C. Co.	do.	5	220 6.0	do.	do.	do.	Mule.	do.		199,478
11	Sangamon Coal Co.	do.	5	265 6.0	do.	do.	do.	do.	do.		197,301
12	Springfield C. M. Co., No. 5.	do.	5	250 5.0	do.	do.	do.	Motor	do.		191,634
13	Cora Coal Co.	do.	5	240 5.10	do.	do.	do.	Mule.	do.		179,609
14	Auburn & Alton Coal Co.	Auburn.	6	270 7.0	do.	do.	do.	do.	do.		127,924
15	T. J. O'Gara, Jeff.	Springfield.	5	250 5.9	do.	do.	do.	do.	do.		121,344
16	West End Coal Co.	do.	5	152 5.10	do.	do.	do.	Motor	do.		119,261
17	Williamsville Coal Co.	Selbytown.	5	270 5.8	do.	do.	do.	do.	do.		118,941
18	Cantrall Coöp. Coal Co.	Cantrall.	5	212 6.4	do.	do.	do.	do.	do.		117,291
19	Springfield Coöp. C. Co., N. W.	Springfield.	5	250 5.10	do.	do.	do.	do.	do.		115,300
20	Lefton Coal Co.	Auburn.	6	270 7.0	do.	do.	do.	Mule.	do.		112,648
21	Wabash Coal Co., No. 1.	Dawson.	5	250 5.4	do.	do.	do.	do.	do.		105,191
22	Citizens C. M. Co., A.	Springfield.	5	208 5.9	do.	do.	do.	do.	do.		93,298
23	Tuxhorn Coal Co.	do.	5	250 5.10	do.	do.	do.	do.	do.		88,066

Table 71—Continued.

SANGAMON COUNTY—*Concluded.*[illegible]

SCHUYLER COUNTY.

[illegible]

SCOTT COUNTY.

[illegible]

SHELBY COUNTY.

[illegible]

Table 71—Continued.

STARK COUNTY.

Number.	Name of operator.	Post-office address of mine.	Physical character of mines.							Total tons.
			Geological number of seam.	Depth of coal below the surface—feet.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—band, mule, cable, electric.	Mining—band, machine, both.
1	Wyoming Mining Co.....	Wyoming.....	6	120 4.6	Sh..	St..	P. R.	Mule.	Hd...	13,326
2	W. B. Ballentine.....	do.....	6	80 5.0	do..	do..	do..	Hd...	do..	5,600
3	Andrews Coal Co.....	do.....	6	104 4.4	do..	do..	do..	do..	do..	5,000
4	Allice J. Catton.....	LaFayette.....	4	4.6	Dr.	Hd.	do..	do..	do..	2,716
5	James Scott.....	Wyoming.....	6	82 4.10	Sh..	Ho..	do..	do..	do..	2,200
6	Jesse Saville.....	Toulon.....	6	70 4.0	do..	do..	do..	do..	do..	2,004
7	Wm. Dalrymple.....	Wyoming.....	6	5.0	Dr.	do..	do..	Mule.	do..	1,400
8	Endress Bros.....	LaFayette.....	6	28 3.10	Sh..	St..	do..	Hd...	do..	500
Total—8 mines.....										32,746

ST. CLAIR COUNTY.

1	St. L. & O'Fallon C. Co., No. 2	E. St. Louis....	6	197 6.0	Sh..	St..	P. R.	M. M.	Both.	564,708
2	Consolidated Coal Co., No. 17.	Collinsville....	6	236 6.6	do..	do..	do..	do..	do..	516,913
3	Southern C. M. Co., No. 8.	Belleville.....	6	114 7.6	do..	do..	do..	do..	Mac..	331,987
4	Prairie Coal Co.....	do.....	6	212 7.0	do..	do..	do..	Mule.	Hd...	325,680
5	Southern C. M. Co., No. 7.	do.....	6	131 7.6	do..	do..	do..	do..	Mac..	233,921
6	Joseph Taylor Coal Co.	O'Fallon.....	6	200 7.6	do..	do..	do..	M. M.	Hd...	180,593
7	Superior C. & M. Co., Sup.	Belleville.....	6	160 7.0	do..	do..	do..	do..	Mac..	158,622
8	Suburban C. & M. Co., S. M.	do.....	6	175 6.6	do..	do..	do..	Mule.	Hd...	151,603
9	Royal C. & M. Co., Royal.	do.....	6	180 7.0	do..	do..	do..	do..	Both.	131,700
10	St. L. & O'Fallon C. Co., No. 1	E. St. Louis....	6	100 6.0	do..	do..	do..	M. M.	Hd...	128,706
11	Kolb Coal Co.....	Mascoutah....	6	160 7.0	do..	do..	do..	do..	do..	117,790
12	Breese Trenton M. Co.	Trenton.....	6	345 5.0	do..	do..	do..	do..	Mac..	105,465
13	Joseph Taylor Coal Co.	O'Fallon.....	6	210 7.6	do..	do..	do..	do..	Hd...	98,046
14	Fullerton Coal Co.	Belleville.....	6	165 7.0	do..	do..	do..	Mule.	do..	86,283
15	Joseph Taylor Coal Co.	O'Fallon.....	6	200 7.6	do..	do..	do..	M. M.	do..	81,952
16	Kalb Coal Co., Fairbank.	New Athens....	6	90 6.6	do..	do..	do..	Mule.	do..	80,102
17	Boards Coal Co., B. C.	Marissa.....	6	115 7.0	do..	do..	do..	M. M.	do..	64,218
18	Pittsburg Mining Co.	Belleville.....	6	140 6.6	do..	do..	do..	Mule.	do..	56,450
19	Johnson Coal Co., O. K.	Marissa.....	6	125 7.0	do..	do..	do..	M. M.	do..	56,167
20	Star Coal Co., S. Mine.	Freeburg.....	6	80 6.0	do..	do..	do..	Mule.	Both.	55,461
21	Mo. & Ill. Coal Co.	Rentchler.....	6	114 7.0	do..	do..	do..	M. M.	Mac..	51,603
22	Jones Bros. C. & M. Co. No. 1.	Marissa.....	6	120 6.6	do..	do..	do..	M. C.	Hd...	50,649
23	International C. & M. Co.	O'Fallon.....	6	190 7.6	do..	do..	do..	M. M.	do..	40,780
24	Summit C. & M. Co., Summit	Belleville.....	6	185 7.0	do..	do..	do..	Mule.	do..	40,532
25	Mulberry H. C. Co., M. H.	Freeburg.....	6	150 7.0	do..	do..	do..	do..	do..	40,440
26	Dewey C. & M. Co.	Belleville.....	6	180 7.0	do..	do..	do..	do..	do..	40,200
27	Wilharmel C. & C. Co.	do.....	6	140 7.0	do..	do..	do..	do..	do..	36,890
28	Egyptian C. & M. Co. No. 1.	Marissa.....	6	150 6.0	do..	do..	do..	Motor	do..	36,407
29	Southern C. & M. Co., No. 1.	Belleville.....	6	183 6.0	do..	do..	do..	Mule.	Mac..	35,670
30	Glendale C. & M. Co.	do.....	6	150 7.0	do..	do..	do..	Motor	Hd...	29,660
31	Groom Coal Co., Richland	do.....	6	100 7.6	do..	do..	do..	Mule.	do..	29,405
32	Mo. & Ill. Coal Co.	Wilderman....	6	100 6.6	do..	do..	do..	do..	Both.	26,728
33	L. Senior Coal Co.	Belleville.....	6	85 6.0	do..	do..	do..	M. M.	do..	25,910
34	Clauy Miller Coal Co.	Caseyville....	6	180 7.0	do..	do..	do..	Mule.	Hd...	25,584
35	Kalb Coal Co.	Birkner.....	6	90 6.0	do..	do..	do..	do..	do..	25,275
36	International C. & M. Co.	O'Fallon.....	6	180 5.9	do..	do..	do..	do..	Mac..	35,013
37	Gouch C. & M. Co., Ext.	Rentchler.....	6	110 6.0	do..	do..	do..	Motor	Hd...	23,740
38	Southern C. & M. Co., No. 3.	Belleville.....	6	185 6.0	do..	do..	do..	Mule.	do..	22,836
39	Tirre C. & M. Co.	Lenzburg.....	6	93 7.0	do..	do..	do..	M. M.	do..	22,414
40	Highland Coal Co.	Belleville.....	6	140 7.0	do..	do..	do..	Mule.	do..	22,038
41	F. Sargent & Sons, C. Mine.	do.....	6	150 6.6	do..	do..	do..	do..	do..	21,429
42	Maul C. & M. Co.	do.....	6	180 6.6	do..	do..	do..	do..	do..	19,367
43	Southern C. & M. Co., No. 6.	do.....	6	180 6.6	do..	do..	do..	do..	do..	19,004

WILL COUNTY.

Table 71—Concluded.

WILLIAMSON COUNTY.

Number.	Name of operator.	Post-office address of mine.	Physical character of mines.								Total tons.
			Geological number of seam.	Depth of coal below the surface—feet.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, electric.	Mining—hand, machine, both.	
1	Big Muddy C. & I. Co., No. 8.	Clifford.....	6	180	9.0	Sh.	St.	P. R.	Motor	Mac.	510,695
2	Johnston City C. Co., No. 1...	Johnston City..	6	217	9.0	do.	do.	do.	do.	M. H.	540,236
3	Madison Coal Corp., No. 9...	Dewmaine.....	6	118	7.6	do.	do.	do.	do.	do.	423,556
4	Chi. and Carterville C. Co., A.	Herrin.....	6	180	9.0	do.	do.	do.	do.	do.	407,420
5	Sunnyside Coal Co., No. 1....	do.	6	150	7.6	do.	do.	do.	do.	do.	342,383
6	Western C. M. Co., Bush.....	Bush.....	6	130	8.0	do.	do.	do.	do.	Hd.	332,693
7	Big Muddy C. & I. Co., No. 7.	Herrin.....	6	140	9.0	do.	do.	do.	do.	do.	313,509
8	W. P. Rend C. & C. Co., No. 2	do.	6	215	9.0	do.	do.	do.	do.	Mac.	290,938
9	Madison Coal Corp., No. 8....	Dewmaine.....	6	99	7.6	do.	do.	do.	do.	Hd.	288,968
10	Peabody Coal Co., No. 2.....	Marion.....	6	84	9.0	do.	do.	do.	do.	M. H.	228,365
11	Taylor Coal Co., No. 2.....	Herrin.....	6	138	9.0	do.	do.	do.	do.	Hd.	227,819
12	Peabody Coal Co., No. 3.....	Marion.....	6	106	9.0	do.	do.	do.	do.	do.	222,701
13	Carterville Coal Co., Burr. C.	Carterville.....	6	100	9.0	do.	do.	do.	Mule.	do.	218,418
14	Chi. Big Muddy Coal Co.....	Marion.....	6	100	8.0	do.	do.	do.	Motor	do.	204,392
15	Hafer Washed C. Co., No. 3...	Carterville.....	6	120	9.0	do.	do.	do.	Mule.	do.	200,137
16	Chi. and Carter. C. Co., O. R.	Herrin.....	6	246	9.0	do.	do.	do.	Motor	do.	197,534
17	West Va. Coal Co., No. 1.....	Marion.....	6	116	7.6	do.	do.	do.	do.	M. H.	192,357
18	So. Ill. C. & C. Co., O. R.....	Herrin.....	6	147	11.9	do.	do.	do.	do.	do.	188,873
19	Big M. Fuel Co., N. Va.....	Johnston City..	6	120	7.6	do.	do.	do.	do.	do.	179,381
20	Carterville Dist. C. Co., No. 1.	Marion.....	6	100	8.0	do.	do.	do.	do.	Mac.	174,390
21	Pond Creek Coal Co.....	Herrin.....	6	240	9.0	do.	do.	do.	Mule.	M. H.	158,089
22	Standard Col Co., McC.....	Johnston City..	6	276	8.0	do.	do.	do.	do.	Mac.	149,666
23	Carterville & Her. C. Co. No. 1	Herrin.....	6	150	9.0	do.	do.	do.	do.	Hd.	125,531
24	Williamson Co. Coal Co.....	Johnston City..	6	172	9.2	do.	do.	do.	do.	do.	125,523
25	St. L.-Carter. C. Co., Dale....	Herrin.....	6	91	9.0	do.	do.	do.	do.	do.	114,866
26	Carter. & B. M. C. Co., John.	Cambria.....	6	...	9.0	do.	do.	do.	Motor	do.	110,015
27	Taylor Coal Co., No. 1.....	Herrin.....	6	55	9.0	do.	do.	do.	Mule.	do.	108,594
28	Watson Coal Co., No. 1.....	do.	6	60	9.0	do.	do.	do.	Motor	do.	106,605
29	So. Ill. C. & C. Co., Hemlock..	do.	6	155	11.0	do.	do.	do.	Mule.	do.	72,282
30	Donally-Koeneck C. Co.....	Carterville.....	6	130	9.6	do.	do.	do.	do.	do.	71,734
31	Scranton & B. M. C. M. Co....	Marion.....	6	160	7.0	do.	do.	do.	do.	M. H.	70,202
32	Robert Dick Coal Co.....	Cambria.....	6	125	9.0	do.	do.	do.	do.	Hd.	59,291
33	Pittsburg-B. M. C. Co., No. 2.	Pittsburg.....	6	220	7.0	do.	do.	do.	Motor	M. H.	38,363
34	Watson Coal Co., No. 2.....	Herrin.....	6	70	9.0	do.	do.	do.	Mule.	Hd.	3,095
35	Reese-Taylor Coal Co.....	Marion.....	6	20	7.0	St.	Ho.	do.	do.	do.	8,017
36	J. S. McNeill.....	Carterville.....	6	20	9.0	do.	do.	do.	do.	do.	8,000
37	Henry T. Simpson.....	Marion.....	6	30	8.0	Sl.	St.	do.	do.	do.	5,000
38	John A. Young.....	Carterville.....	5	50	4.0	Sh.	Ho.	do.	Hd.	do.	3,530
39	F. E. Renfro.....	Crab Orchard..	5	...	4.6	Dr.	do.	do.	Mule.	do.	1,200
40	Carlisle Coal Co.....	Carterville.....	6	22	9.0	Sl.	St.	do.	do.	do.	575
41	Chas. W. Swan.....	Crab Orchard..	5	10	6.0	do.	do.	do.	do.	do.	490
42	Motsinger & Carter.....	do.	6	6	4.6	do.	do.	do.	Hd.	do.	450
43	L. Bradley.....	do.	5	...	5.6	St.	do.	do.	Mule.	do.	300
44	W. S. Tarpley.....	do.	5	...	4.6	Dr.	Ho.	do.	do.	do.	180
45	M. Shaw.....	do.	5	30	4.4	Sl.	do.	do.	do.	do.	150
46	Black Diamond C. Co.....	Marion.....	5	70	4.0	Sh.	St.	do.	Hd.	do.	41
Total—46 mines.....											7,086,554

WOODFORD COUNTY.

1	Roanoke Coal Co.....	Roanoke.....	2	480	2.6	Sh.	St.	L. W.	Mule.	Hd...	122,552
2	Minonk Coal Co., No. 2.....	Minonk.....	2	550	3.0	do.	do.	do.	do.	do.	61,344
Total—2 mines.....											183,896

Table 12 is a summary of the physical characteristics of the mines as shown in Table 11.

TABLE 12—*Summary of the physical character of the coal mines of the State, geological number of seams, manner of working, kind of opening and tons produced.*

Geological number of seam.	Number of counties.	Number of mines.	Manner of working.			Character of opening.			Tons.
			Long wall.	Pillar and room.	Strip.	Shaft.	Slope.	Drift.	
1.....	8	54	1	53	.....	32	11	11	525, 835
1 and 2.....	1	4	.....	4	.....	4	.....	.....	418, 889
2.....	13	140	32	108	.....	67	8	65	4, 635, 146
3.....	3	11	4	7	.....	4	.....	7	677, 071
4.....	1	1	.....	1	.....	.....	.....	1	2, 716
5.....	13	268	1	266	1	141	38	89	12, 879, 040
6.....	29	334	5	328	1	292	26	16	37, 331, 439
7.....	6	61	1	60	.....	26	10	25	1, 030, 395
16.....	1	6	.....	6	.....	6	.....	.....	13, 709
Total.....	.....	879	44	833	2	572	93	214	57, 514, 240

FATAL ACCIDENTS.

Table 73 shows the number of fatal accidents by districts for the year, number of employees, total output of coal, the number employed to each death, the ratio of fatalities to 1,000 men employed and the number of tons mined to each death.

TABLE 73—*Total casualties by districts for the year ended June 30, 1912.*

Districts.	Killed.			Employees.			Total tons of coal mined.	Number of employ-ees to each death.	Ratio per 1,000 em-ployed.	Number of tons of coal to each death.
	Total num-ber.	Under ground.	Above ground.	Under ground.	Above ground.	Total.				
First.....	8	7	1	5,370	566	5,936	2,612,556	742	1.3	326,569
Second.....	6	5	1	4,670	418	5,088	2,250,393	848	1.2	375,065
Third.....	7	7	.....	4,772	492	5,264	3,015,086	752	1.3	430,727
Fourth.....	7	6	1	3,747	348	4,095	2,471,286	585	1.7	353,041
Fifth.....	21	21	.....	6,452	566	7,018	5,174,966	334	3.0	246,427
Sixth.....	6	4	2	7,598	661	8,259	6,014,872	1,376	0.7	1,002,479
Seventh.....	23	23	.....	6,788	589	7,377	7,201,251	321	3.1	313,098
Eighth.....	20	20	.....	6,735	680	7,415	5,854,645	371	2.7	292,732
Ninth.....	13	13	.....	5,329	527	5,856	4,516,548	450	2.2	347,427
Tenth.....	6	6	.....	4,712	492	5,204	3,091,428	867	1.2	515,238
Eleventh.....	40	38	2	8,480	897	9,377	8,220,784	234	4.3	205,515
Twelfth.....	23	23	.....	7,709	813	8,522	7,090,425	371	2.7	308,279
The State.	180	173	7	72,362	7,049	79,411	57,514,240	441	2.3	319,524

Table 74 is the record of fatalities for thirty years. This year the ratio of deaths to 1,000 employees is higher than last year, but is below the average for the series, while the number of tons mined to each life lost remains the same.

TABLE 74—*Fatal accidents for thirty years.*

Year.	Number killed.	Total number of employees.	Total tons of coal mined.	Number of employees to each life lost.	Ratio per 1,000.	Number of tons of coal produced to each life lost.
1883.....	134	23,939	12,123,456	179.6	5.6	90,474
1884.....	46	25,575	12,208,075	566	1.8	265,393
1885.....	39	25,946	11,834,459	652.4	1.5	303,448
1886.....	52	25,846	11,175,241	497	2.0	214,909
1887.....	41	26,804	12,423,066	654	1.5	303,002
1888.....	55	29,410	14,328,181	534.7	1.9	260,512
1889.....	42	30,076	14,017,298	716.1	1.4	333,745
1890.....	53	28,574	15,274,727	539.1	1.9	288,203
1891.....	60	32,951	15,660,698	549	1.8	261,012
1892.....	57	33,632	17,862,276	590	1.7	313,372
1893.....	69	35,390	19,949,564	513	1.9	289,124
1894.....	72	38,477	17,113,576	534	2.2	237,688
1895.....	75	38,630	17,735,864	515	2.3	236,478
1896.....	77	37,057	19,786,626	481	2.3	256,969
1897.....	69	33,788	20,072,758	489.7	2.0	290,910
1898.....	75	35,026	18,599,299	467	2.1	247,991
1899.....	84	36,991	23,434,445	440	2.3	278,982
1900.....	94	39,384	25,153,929	419	2.4	267,595
1901.....	99	44,143	26,635,319	445.9	2.2	269,044
1902.....	99	46,005	30,021,300	464.7	2.2	303,245
1903.....	156	49,814	34,955,400	319.3	3.1	224,073
1904.....	157	54,774	37,077,897	348.9	2.9	236,165
1905.....	199	59,230	37,183,374	298	3.4	186,851
1906.....	155	62,283	38,317,581	402	2.5	247,210
1907.....	165	66,714	47,798,621	404	2.5	289,689
1908.....	183	70,841	49,272,452	387	2.6	269,248
1909.....	213	72,733	49,163,710	341.5	2.9	230,816
1910.....	406	74,834	48,717,853	183.8	5.4	119,997
1911.....	157	77,410	50,165,099	493	2.0	319,523
1912.....	180	79,411	57,514,240	441	2.3	319,524
Average—30 years	112	44,516	26,852,546	397.1	2.5	239,541

Table 75 shows the average number of men killed, employees, production, and ratio for the nine years, 1883 to 1891, and for the succeeding twenty-one years.

TABLE 75—*Fatal accidents, averages and proportions for nine years, 1883-1891, and for the succeeding twenty-one years, 1892-1912.*

Number of years.	Average.			Proportion of—		Ratio per 1,000.
	Killed.	Employees.	Tons mined.	Employees to each life lost.	Tons to each life lost	
9 years.....	58	27,623	13,227,245	476.3	208,899	2.1
10 years.....	58	28,224	13,610,748	487.5	235,073	2.1
11 years.....	59	28,876	14,187,004	490.2	240,829	2.0
12 years.....	60	29,189	14,430,885	486.5	240,515	2.1
13 years.....	61	29,402	14,685,114	481	240,134	2.1
14 years.....	62	29,663	15,049,508	464.8	241,621	2.1
15 years.....	63	29,938	15,384,391	479	245,235	2.1
16 years.....	64	30,256	15,585,323	476.5	245,438	2.1
17 years.....	65	30,652	16,047,036	473.7	248,000	2.1
18 years.....	66	31,137	16,552,974	469.4	249,568	2.1
19 years.....	68	31,822	17,083,624	467.6	251,035	2.1
20 years.....	70	32,531	17,730,508	467.4	254,748	2.1
21 years.....	74	33,354	18,550,741	452.5	251,657	2.2
22 years.....	78	34,328	19,392,884	442.9	250,231	2.3
23 years.....	83	35,410	20,166,384	427.8	243,607	2.3
24 years.....	86	36,530	20,922,767	425	243,288	2.4
25 years.....	89	37,737	21,997,733	424	247,277	2.3
26 years.....	93	39,665	23,077,519	428	249,279	2.3
27 years.....	97	40,890	24,043,674	421	247,778	2.4
28 years.....	108	42,095	24,924,894	389.4	230,557	2.6
29 years.....	110	43,313	25,795,350	394.6	235,019	2.5
30 years.....	112	44,516	26,852,546	397.1	239,541	2.5

Table 76 is a list of the causes of the 180 fatalities which occurred during the year.

TABLE 76—*Fatal accidents by causes for 1912, by districts, with percentages.*

Number.	Causes.	Total.	Districts.												Per- cent- ages.
			1st	2d	3d	4th	5th	6th	7th	8th	9th	10th	11th	12th	
1	Asphyxiation.....	9	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	8	.....	5.00
2	Blast explosion	2	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1.11
3	Bursting steam pipe ..	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.56
4	Cage	3	.....	.....	.....	.....	.....	.....	1	1	.....	1	.....	.....	1.67
5	Dynamite explosion ..	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.56
6	Electrocuted	3	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	2	.....	1.67
7	Falling clod	3	.....	.....	.....	.....	.....	.....	.....	2	1	.....	.....	.....	1.67
8	Falling coal	25	.....	1	1	.....	1	.....	3	5	2	.....	8	4	13.88
9	Falling prop	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.56
10	Falling rock	29	4	1	1	1	15	.....	3	1	.....	.....	3	.....	16.10
11	Falling slate	41	.....	1	3	.....	1	1	2	6	6	1	10	10	22.77
12	Falling tower	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.56
13	Fell down shaft	6	.....	.....	1	1	2	.....	.....	.....	2	.....	.....	.....	3.33
14	Flying coal	3	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	1	1.67
15	Gas explosion	3	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	1	1.67
16	Motor	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	2	1.67
17	Mule, kicked by	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.56
18	Pit cars	34	1	1	.....	4	1	1	8	4	2	2	7	3	18.88
19	Powder explosion	3	.....	.....	.....	.....	1	1	.....	1	.....	.....	.....	.....	1.67
20	Premature blast	4	.....	.....	.....	.....	.....	.....	1	.....	.....	1	.....	2	2.22
21	Railroad cars	2	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1.11
22	Struck by hook	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.56
23	Struck by lever	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.56
	Total	180	8	6	7	7	21	6	23	20	13	6	40	23	100.00

Table 77. In this table the record of fatal accidents is shown for twenty-five years by seven leading causes. To these causes are attributable 2,829 deaths, of which more than one-half is due to falling coal, rock, etc.

TABLE 77—*Fatal accidents for twenty-five years, by leading causes.*

Years.	T-tal.	Leading causes.									Other causes.	
		Blasts and ex- plosions.	Cages.	Falling coal, rock and roof.	Falling down shaft.	Fire, black and white damp.	Pit cars.	Railway cars.	Total.	Percentages.	Total.	Percentages.
1888.....	55	9	2	33	4	.....	6	1	55	100.0	.....	.....
1889.....	42	3	4	26	2	.....	5	.....	40	95.2	2	4.8
1890.....	53	4	4	36	.....	5	3	1	53	100.0	.....	.....
1891.....	60	11	4	33	1	4	2	2	57	95.0	3	5.0
1892.....	57	4	4	28	8	3	6	1	54	94.7	3	5.3
1893.....	69	6	4	48	3	2	2	1	66	95.7	3	4.3
1894.....	72	8	8	43	5	.....	6	2	72	100.0	.....	.....
1895.....	75	12	4	38	4	5	5	1	69	92.0	6	8.0
1896.....	77	9	5	41	6	2	7	1	71	92.2	6	7.8
1897.....	69	11	.....	46	5	2	1	1	66	95.7	3	4.3
1898.....	75	11	2	43	4	7	2	1	70	93.3	5	6.7
1899.....	84	4	5	51	4	4	6	1	75	89.3	9	10.7
1900.....	94	17	4	51	1	1	11	2	87	92.6	7	7.4
1901.....	99	3	1	57	1	1	11	.....	74	74.7	25	23.3
1902.....	99	13	2	55	7	.....	15	2	94	95.0	5	5.0
1903.....	156	47	6	77	2	.....	18	.....	150	96.2	6	3.8
1904.....	157	44	4	65	8	.....	21	2	144	91.7	13	8.3
1905.....	199	82	6	80	4	3	10	1	186	93.5	13	6.5
1906.....	155	24	5	84	9	.....	18	4	144	92.9	11	7.1
1907.....	165	24	8	84	6	4	28	4	158	95.8	7	4.2
1908.....	183	36	1	91	3	.....	35	8	174	95.1	9	4.9
1909.....	213	69	4	84	5	4	24	8	198	93.0	15	7.0
1910.....	406	33	6	65	3	260	21	3	391	96.3	15	3.7
1911.....	157	10	2	80	5	.....	28	2	127	80.9	30	19.1
1912.....	180	2	3	98	6	9	34	2	154	85.6	26	14.4
Total 25 years.....	3,051	496	98	1,437	106	316	325	51	2,829	.....	222	.....
Percentages 25 years.....	.....	16.3	3.2	47.1	3.5	10.3	10.7	1.7	.....	92.8	.....	7.2

Table 78 shows, by districts, the number of fatal accidents caused by powder and other causes for the year and for the preceding eleven years. The last line at the bottom of the table gives the totals for twelve years.

TABLE 78—*Fatal accidents, caused primarily by explosions of powder, gas explosions, falling coal, rock, etc., pit cars and various causes, by districts, for the year 1912, and for the eleven preceding years.*

Districts and years.	Causes—use of powder.					Total from use of powder.	Other causes.				Totals.	
	Blast explosions.	Blasts premature.	Blown out charge.	Powder explosions.	Flying coal.		Gas explosions.	Falling coal, rock, etc.	Pit cars.	Various.	From other causes.	From all causes.
First.....	1					1		4	1	2	7	8
Second.....								3	1	2	6	6
Third.....					1	1		5		1	6	7
Fourth.....								1	4	2	7	7
Fifth.....				1		1		17	1	2	20	21
Sixth.....				1		1		1	1	3	5	6
Seventh.....	1	1			1	3	2	8	8	2	20	23
Eighth.....				1		1		14	4	1	19	20
Ninth.....								9	2	2	13	13
Tenth.....		1				1		1	2	2	5	6
Eleventh.....								21	7	12	40	40
Twelfth.....		2			1	3	1	14	3	2	20	23
1912.....	2	4		3	3	12	3	98	34	33	168	180
1911.....	3	4	1	2		10	8	80	28	31	147	157
1910.....	4	2		7	4	17	16	65	21	287	389	406
1909.....	16	2		10	1	29	40	84	24	36	184	213
1908.....	9	4	5	8	3	29	7	91	35	21	154	183
1907.....	1	1	11	10	1	24	4	84	28	25	141	165
1906.....	4	1	2	5	10	22	2	84	18	29	133	155
1905.....	8	2	7	8	9	34	48	80	10	27	165	199
1904.....	3	16	2	14	9	44		65	21	27	113	157
1903.....	25	11		3	2	41	8	79	18	10	115	156
1902.....	2	9		3	3	17		55	15	12	82	99
1901.....	1	8		3	8	20	1	57	11	10	79	99
Twelve years.....	78	64	28	76	53	299	137	922	263	548	1,870	2,169

Table 79 gives the percentages of the numbers as shown in Table 78.

TABLE 79—*Percentages of fatal casualties for twelve years, 1901-1912, by causes.*

Year.	Percentages—														
	Use of powder.					From powder, other named causes, and all causes.	Other causes.				All causes.				
	Blast explosions.	Blast, premature.	Blown out charge.	Powder explosions.	Flying coal.		Gas explosions.	Falling coal, rock, etc.	Pit cars.	Various.	Blast, powder, etc.	Gas explosions.	Falling rock, coal, etc.	Pit cars.	Various.
1901.....	5.0	40.0	.....	15.0	40.0	100.00	1.3	72.1	13.9	12.7	20.2	1.0	57.6	11.1	10.1
1902.....	11.8	52.9	.....	17.6	17.7	100.00	.....	67.1	18.3	14.6	17.2	....	55.6	15.1	12.1
1903.....	61.0	26.8	.....	7.3	4.9	100.00	7.0	68.7	15.6	8.7	26.3	5.1	50.7	11.5	6.4
1904.....	6.8	36.4	4.5	31.8	20.5	100.00	.....	57.5	18.6	23.9	28.0	....	41.4	13.4	17.2
1905.....	23.5	5.9	20.6	23.5	26.5	100.00	29.1	48.5	6.0	16.4	17.1	24.1	49.2	5.0	13.6
1906.....	18.2	4.5	9.1	22.7	45.5	100.00	1.5	63.2	13.5	21.8	14.2	1.3	54.2	11.6	18.7
1907.....	4.2	4.2	45.8	41.6	4.2	100.00	2.8	59.6	19.9	17.7	15.6	2.4	50.9	17.0	15.1
1908.....	31.0	13.8	17.2	27.6	10.4	100.00	4.6	59.1	22.7	13.6	15.9	3.8	49.7	19.1	11.5
1909.....	55.2	6.9	.....	34.5	3.4	100.00	21.7	45.7	13.0	19.6	13.6	18.8	39.4	11.3	16.9
1910.....	23.5	11.8	.....	41.2	23.5	100.00	4.3	16.7	5.4	73.6	4.2	4.2	16.0	5.1	70.5
1911.....	30.0	40.0	10.0	20.0	.....	100.00	5.4	54.4	19.1	21.1	6.4	5.1	51.0	17.8	19.7
1912.....	16.7	33.3	.....	25.0	25.0	100.00	1.8	58.3	20.2	19.7	6.7	1.7	54.4	18.9	18.3
Twelve years.	26.1	21.4	9.4	25.4	17.7	100.00	7.3	49.3	14.1	29.3	13.8	6.3	42.5	12.1	25.3

Table 80. This table gives the number of fatal and non-fatal accidents for the year caused by powder, falling coal, roof, etc., and other causes, with percentages.

TABLE 80—*Fatal and non-fatal accidents caused primarily by explosions of powder, falling coal, rock, etc., and all other causes, with percentages.*

Causes.	Casualties.		Percentages.		All casualties.	Percentages.
	Fatal.	Non-fatal	Fatal.	Non-fatal.		
Blast explosions.....	2	2	16.7	9.5	4	12.1
Blasts, premature.....	4	3	33.3	9.5	6	18.2
Blown out charge.....		2		9.5	2	6.1
Powder explosions.....	3	5	25.0	23.8	8	24.2
Flying coal.....	2	10	25.0	47.7	13	39.4
Total.....	12	21	100.0	100.0	33	100.0
Falling coal, rock, etc.....	98	364	58.3	46.7	462	48.8
All other causes.....	70	415	41.7	53.3	485	51.2
Total.....	168	779	100.0	100.0	947	100.0
Grand total.....	180	800	18.4	81.6	980	100.0

Table 81 presents the record of fatal accidents caused by falling roof and sides, and all other causes, with percentages, each year for thirty years. The number of employees, tons produced, and total deaths is given from year to year, and the totals for the series is shown at the bottom of the table.

TABLE 81—*Fatal accidents in coal mines, caused by falls in mines and from all other causes, the total number of men and tons, with percentages for thirty years.*

Years.	Persons employed.	Total tons.	Total deaths.	Causes.		Percentage by—	
				Falls.	Other causes.	Falls.	Other causes.
1883.....	23,939	12,123,456	134	40	94	29.9	70.1
1884.....	25,575	12,208,076	46	29	17	63.0	37.0
1885.....	25,946	11,834,459	39	20	19	51.3	48.7
1886.....	25,846	11,175,241	52	32	20	61.5	38.5
1887.....	26,804	12,423,066	41	28	13	68.3	31.7
1888.....	29,410	14,328,181	55	33	22	60.0	40.0
1889.....	30,076	14,017,298	42	26	16	61.9	38.1
1890.....	28,574	15,274,727	53	36	17	67.9	32.1
1891.....	32,951	15,660,698	60	33	27	55.0	45.0
1892.....	33,632	17,862,276	57	28	29	49.1	50.9
1893.....	35,390	19,949,564	69	48	21	69.6	30.4
1894.....	38,477	17,113,576	72	43	29	59.7	40.3
1895.....	38,630	17,735,864	75	38	37	50.7	49.3
1896.....	37,032	19,786,626	77	41	36	53.2	46.8
1897.....	33,788	20,072,758	69	46	23	66.7	33.3
1898.....	35,026	18,599,299	75	43	32	57.3	42.7
1899.....	36,991	23,434,445	84	51	33	60.7	39.3
1900.....	39,384	25,153,929	94	51	43	54.3	45.7
1901.....	44,143	26,635,319	99	57	42	57.6	42.4
1902.....	46,005	30,021,300	99	55	44	55.6	44.4
1903.....	49,814	34,955,400	156	56	80	48.7	51.3
1904.....	54,774	37,077,897	157	65	92	41.4	58.6
1905.....	59,230	37,183,374	199	80	119	40.2	59.8
1906.....	62,283	38,317,581	155	84	71	54.2	45.8
1907.....	66,714	47,798,621	165	84	81	50.9	49.1
1908.....	70,841	49,272,452	183	91	92	49.7	50.3
1909.....	72,733	49,163,710	213	84	129	39.4	60.6
1910.....	74,634	48,717,853	406	65	341	16.0	84.0
1911.....	77,410	50,165,099	157	80	77	51.0	49.0
1912.....	79,411	57,514,240	180	98	82	54.4	45.6
Total—30 years....	.....	805,576,384	3,363	1,585	1,778	47.1	52.9

Table 82 gives the occupation of the men killed, the number and per cent in each, and their conjugal relationship.

TABLE 82—*Occupation and conjugal relation of men killed at the mines for the year 1912.*

Occupations.	Total deaths.	Per-cent-ages.	Conjugal relations.				
			Married.	Single.	Widows.	Children.	De-pend-ents.
Cagers	2	1.11	1	1	1	3	4
Drivers	26	14.44	11	15	11	17	26
Engineers	1	.56	1	.....	1	3	4
Firemen	2	1.11	1	1	1	2	3
Laborers	14	7.78	10	4	10	29	35
Loaders	11	6.11	9	2	9	17	25
Machine helpers	6	3.33	3	3	3	12	15
Machine runners	7	3.89	5	2	5	9	14
Mine manager	1	.56	1	.....	1	4	5
Miners	84	46.66	61	23	61	164	209
Motorman	1	.56	1	.....	1	.....	1
Operator	1	.56	1	.....	1	6	2
Shot firers	4	2.22	3	1	3	4	7
Timbermen	7	3.89	7	.....	7	11	15
Trackmen	3	1.67	1	2	1	2	3
Trappers	4	2.22	1	3	1	7	2
Tripriders	4	2.22	2	2	2	2	4
Weighmen	2	1.11	2	.....	2	3	5
Total	180	100.00	121	59	121	295	379

Table 83 gives nine leading occupations of the men employed in the shipping mines. The number of men, number of accidents, both fatal and non-fatal, number employed to each accident, ratio per 1,000, and the average age is shown.

TABLE 83—*Occupational casualties, fatal and non-fatal, number of employees in each occupation, percentages and ratio, shipping mines.*

Classifications of occupation.	Total number of employees in each class.	Number of casualties in each class.		Percentage of each class—		Number employed in each class to one man—		Ratio per 1,000 employed in each class—		Average ages of the—	
		Fatal.	Non-fatal.	Injured.	Killed.	Killed.	Injured.	Injured.	Killed.	Killed.	Injured.
Cagers.....	880	2	21	0.23	2.39	440	42	2.27	23.86	34	37
Drivers.....	4,690	25	167	0.53	3.56	188	28	5.33	35.61	24	26
Laborers.....	4,624	14	60	0.30	1.30	330	77	3.03	12.98	42	33
Loaders.....	13,177	11	36	0.08	0.27	1,198	366	0.83	2.73	34	35
Machine men.....	3,296	13	45	0.39	1.37	254	73	3.94	13.66	33	35
Miners.....	36,845	79	367	0.21	1.00	466	100	2.14	9.96	38	38
Timbermen.....	1,257	7	19	0.56	1.51	179	66	5.57	15.12	40	41
Trackmen.....	1,648	3	5	0.18	0.30	549	330	1.82	3.03	35	45
Trappers.....	1,282	4	13	0.31	1.01	321	99	3.12	10.14	31	22
Total classified.....	67,699	158	733	0.23	1.08	428	92	2.33	10.83	34	34
Not classified.....	8,708	15	59	0.17	0.68	581	148	1.72	6.78	32	34
Total—all employees..	76,407	173	792	0.23	1.04	442	96	2.26	10.37	34	34

Table 84. This table gives by occupations the range of ages and the average ages of the men killed. The number killed in each occupation is given in the first column.

TABLE 84—*Range of ages, average age and total number killed, by occupations.*

Occupations.	Total killed.	Range of ages.										Average ages.
		Under 20.	20 but under 25.	25 but under 30.	30 but under 35.	35 but under 40.	40 but under 45.	45 but under 50.	50 but under 55.	55 but under 60.	60 and over.	
Cagers.....	2			1			1					34
Drivers ^a	26	3	14	6	2	1						24
Engineers.....	1								1			51
Foremen.....	2				2							33
Laborers ^b	14		1	3	1	1	2	1	3	1	1	42
Loaders.....	11		2	2	3	2				2		34
Machine helpers....	6			2	1	3						32
Machine runners....	7			2	2	2		1				33
Mine manager.....	1				1							30
Miners ^c	*84	4	5	12	10	17	8	18	5	2	2	38
Motorman.....	1		1									23
Operator.....	1									1		57
Shot firers.....	4			2		1	1					33
Timbermend.....	7				3	1	1			1	1	40
Trackmen.....	3		1			1		1				35
Trapper ^e	4	2		1							1	30
Tripriders ^f	4	1			2	1						30
Weighmen.....	2			1			1					33
Total.....	*180	10	24	32	27	30	14	21	9	7	5	34

* One, age not given.

^a Three, 18 years.

^b One, 70 years.

^c Two, 63; four, 18 years

^d One, 62 years.

^e One, 65; two, 17 years.

^f One, 19 years.

NON-FATAL ACCIDENTS.

Table 85 shows, by districts, the non-fatal accidents. There were ninety-one more men injured so as to lose thirty or more days time than last year. The number of tons mined to each man injured is 71,893, while the number last year was 70,755.

TABLE 85—*Non-fatal accidents by districts—1912.*

Districts.	Number of injured.	Injured.		Number of employees.			Total tons of coal mined.	Number of employees to one man injured.	Ratio per 1,000.	Number of tons mined to each man injured.
		Under ground.	Above ground.	Under ground.	Above ground.	Total.				
First.....	78	76	2	5,370	566	5,936	2,612,556	76	13.1	33,494
Second.....	88	85	3	4,670	418	5,088	2,250,393	58	17.3	25,573
Third.....	62	61	1	4,772	492	5,264	3,015,086	85	11.8	48,630
Fourth.....	5	5	.....	3,747	348	4,095	2,471,286	819	1.2	494,257
Fifth.....	92	89	3	6,452	566	7,018	5,174,966	76	13.1	56,250
Sixth.....	24	24	.....	7,598	661	8,259	6,014,872	344	2.9	250,620
Seventh.....	84	82	2	6,788	589	7,377	7,201,251	88	11.4	85,729
Eighth.....	108	104	4	6,735	680	7,415	5,854,645	69	14.6	54,210
Ninth.....	53	52	1	5,329	527	5,856	4,516,548	111	9.1	85,218
Tenth.....	21	19	2	4,712	492	5,204	3,091,428	248	4.0	147,211
Eleventh.....	123	113	10	8,480	897	9,377	8,220,784	76	13.1	66,836
Twelfth.....	62	58	4	7,709	813	8,522	7,090,425	132	7.3	114,362
The State.	800	768	32	72,362	7,049	79,411	57,514,240	99	10.1	71,893

Table 86 gives the record of non-fatal accidents for thirty years. The average of each item for that time will be found at the bottom of the table.

TABLE 86—*Non-fatal accidents for thirty years.*

Year.	Number of men injured.	Total number of employees.	Total number of tons of coal mined.	Number of employees to one man injured.	Ratio per 1,000.	Number of tons of coal produced to one man injured.
1883.....	231	23,939	12,123,456	104	9.6	52,482
1884.....	197	25,575	12,208,075	130	7.7	61,970
1885.....	176	25,946	11,834,459	147	6.8	67,241
1886.....	171	25,846	11,175,241	151	6.6	66,126
1887.....	180	26,804	12,423,066	149	6.7	69,017
1888.....	179	29,410	14,328,181	164	6.1	80,046
1889.....	201	30,076	14,017,298	150	6.7	69,738
1890.....	294	28,574	15,274,727	97	10.3	51,955
1891.....	367	32,951	15,660,698	90	11.1	42,672
1892.....	370	33,632	17,862,276	91	11.0	48,276
1893.....	403	35,390	19,949,564	88	11.4	49,503
1894.....	521	38,477	17,113,576	74	13.5	32,848
1895.....	605	38,630	17,735,864	64	15.7	29,315
1896.....	672	37,032	19,786,626	55	18.1	29,444
1897.....	518	33,788	20,072,758	65	15.3	38,751
1898.....	438	35,026	18,599,299	80	12.5	42,464
1899.....	597	36,991	23,434,445	62	16.1	39,254
1900.....	611	39,384	25,153,939	65	15.5	41,168
1901.....	422	44,142	26,635,319	104	9.6	63,117
1902.....	406	46,005	30,021,300	127	8.8	73,944
1903.....	410	49,814	34,955,400	121	8.2	85,257
1904.....	507	54,774	37,077,897	108	9.3	73,132
1905.....	535	59,230	37,183,374	111	9.0	69,502
1906.....	480	62,283	38,317,581	130	7.7	79,828
1907.....	636	66,714	47,798,621	105	9.5	75,155
1908.....	819	70,841	49,272,452	86	11.6	60,162
1909.....	894	72,733	49,163,710	81	12.3	54,993
1910.....	742	74,634	48,717,853	101	9.9	65,657
1911.....	709	77,410	50,165,099	109	9.2	70,755
1912.....	800	79,411	57,514,240	99	10.1	71,893
Average 30 years.....	469	44,516	26,852,546	95	10.5	57,206

Table 87. In this table a list of the occupation in which the injured were employed is given. The number injured in each occupation is shown by district.

TABLE 87—*Non-fatal accidents by occupations, with totals and percentages, by districts.*

	Districts.												Total.	Per- cent- ages.
	1st.	2d.	3d.	4th.	5th.	6th.	7th.	8th.	9th.	10th.	11th.	12th.		
Blacksmiths.....	1								1	1			3	.37
Cagers.....	2	1			1	1	4	4	3		1	4	21	2.62
Carpenters.....								1			2		3	.37
Couplers.....					2		1	3			1	2	9	1.12
Drivers.....	11	16	9	1	20	9	17	30	18	8	17	12	168	21.00
Engineers.....								1					1	.13
Firemen.....					1		1				3		5	.62
Foreman.....												1	1	.13
Laborers.....	3	8	3		9	1	6	7	1	1	17	4	60	7.50
Loaders.....						1	12	11	9		1	2	36	4.50
Machinehelpers.....				1				1	3		2		7	.87
Machine runners.....			1			1	5	6	3	2	14	6	38	4.75
Machinists.....											1		1	.13
Mine examiners.....			1				1				2		4	.50
Mine managers.....				1	1		1						3	.37
Miners.....	56	59	47	1	50	8	33	33	12	8	44	21	372	46.50
Motormen.....		1			2			2			1		6	.75
Operator.....				1									1	.13
Pumpmen.....	1										1		2	.25
Shotfirers.....						1				1	1	1	4	.50
Spraggers.....											4		4	.50
Superintendent.....					1								1	.13
Switchman.....						1							1	.13
Timbermen.....		2			3		1	4	2		1	6	19	2.38
Trackmen.....	3		1					1					5	.62
Trappers.....					2	1	2	4			2	2	13	1.63
Trip riders.....	1								1		8	1	11	1.37
Weighman.....		1											1	.13
Total.....	78	88	62	5	92	24	84	108	53	21	123	62	800	100.00
Percentages.....	9.8	11.0	7.9	0.6	11.5	3.0	10.5	13.5	6.6	2.6	15.4	7.7	100.00	.....

Table 88 shows, by districts, the conjugal relation of the men injured, the number reporting time lost, the total number of days lost and the average for each man.

TABLE 88—*Non-fatal accidents, conjugal relations of the injured, dependents, time lost, by districts.*

Districts.	Total number injured.	Married.	Single.	Children.	Depend- ents.	Number re- porting time lost.	Total days lost.	Average days lost.
First.....	78	54	24	150	179	72	4,396	61.06
Second.....	88	51	37	141	188	60	3,733	62.22
Third.....	62	37	25	82	116	47	2,476	52.68
Fourth.....	5	5	.....	8	13	3	224	74.67
Fifth.....	92	58	34	151	188	92	5,025	54.62
Sixth.....	24	12	12	17	27	18	1,134	63.00
Seventh.....	84	48	36	136	169	74	5,198	70.24
Eighth.....	108	49	59	152	177	87	5,709	65.62
Ninth.....	53	31	22	82	113	49	2,346	47.88
Tenth.....	21	16	5	30	46	19	821	43.21
Eleventh.....	123	74	49	173	246	96	5,517	57.47
Twelfth.....	62	34	28	79	110	58	2,981	51.40
The State.....	800	469	331	1,201	1,572	675	39,560	58.61

Table 89. Here is shown a list of twenty-four causes of the accidents which resulted in the injury of the 800 men. The table is arranged by districts and shows the number and causes in each district. The per cent injured by each cause and the per cent of the total in each district is also given.

TABLE 89—*Non-fatal accidents by causes for 1912, by districts, with totals and percentages.*

Causes.	Districts.												Total.	Per- cent- ages.
	1st.	2d.	3d.	4th.	5th.	6th.	7th.	8th.	9th.	10th.	11th.	12th.		
Blast explosions.....	—	—	—	—	—	—	—	2	—	—	—	—	2	0.2
Blown out charge.....	—	—	—	—	—	1	—	—	—	—	—	1	2	0.2
Cage.....	1	—	1	—	7	—	9	—	—	—	5	1	24	3.0
Caught between object.....	—	—	—	—	—	—	—	5	—	2	—	—	7	0.9
Coal fell down shaft....	1	1	1	—	—	—	—	2	—	—	1	1	7	0.9
Electric current.....	—	—	—	—	—	—	—	—	2	—	—	—	2	0.2
Engine.....	1	—	—	—	—	—	—	1	—	—	—	1	3	0.4
Falling articles.....	1	—	—	1	—	1	5	4	1	1	5	1	20	2.5
Falling coal, rock, etc.	47	61	39	3	40	6	35	38	20	7	41	27	364	45.6
Fell down, etc.....	2	3	1	—	2	1	2	3	—	—	5	1	20	2.5
Flying articles.....	1	—	—	—	1	—	2	1	1	1	1	—	8	1.0
Flying coal.....	2	—	1	—	4	—	—	2	—	—	1	—	10	1.2
Gas explosion.....	2	—	—	—	2	1	2	1	—	—	12	3	23	2.9
Hot water and steam..	—	—	—	—	1	—	—	—	1	—	—	—	2	0.2
Lifting weight.....	2	—	—	—	—	—	—	—	—	—	—	1	3	0.4
Machine.....	—	—	1	—	1	—	2	2	1	—	11	4	22	2.8
Motor.....	—	—	—	—	—	1	1	2	—	—	3	—	7	0.9
Mule, injured by.....	—	2	—	—	2	—	2	6	3	1	4	2	22	2.8
Nail, stepped on.....	—	—	—	—	—	—	—	1	—	—	—	—	1	0.1
Pit cars.....	16	18	13	1	27	12	23	30	20	7	27	16	210	26.3
Powder explosion.....	—	—	—	1	—	1	—	2	—	—	1	—	5	0.6
Premature blasts.....	—	—	—	1	—	—	—	—	—	—	1	—	2	0.2
Railroad cars.....	1	1	1	—	—	—	—	—	1	—	1	3	9	1.1
Struck by articles.....	1	2	2	—	4	1	1	5	4	1	4	—	25	3.1
Totals.....	78	88	62	5	92	24	84	108	53	21	123	62	800	100.0
Percentages.....	9.8	11.0	7.8	0.6	11.5	3.0	10.5	13.5	6.6	2.6	15.4	7.8	100.0	.....

Table 90 presents the causes of non-fatal accidents reduced to two classes: use of powder, and other causes. It will be seen that the use of powder is responsible for twenty-one accidents, while 779 received injuries from the other causes.

The totals for the preceding eleven years follow the districts and discloses the fact that 430 men in twelve years have been injured from the use of powder.

TABLE 90—*Non-fatal accidents caused primarily by explosions of powder, gas explosions, falling coal, rock, etc., pit cars and various causes, by districts, for 1912, and for the eleven preceding years.*

Districts and years.	Use of powder.					Total from use of powder.	Other causes.				Total.	
	Blast explosions.	Blast, premature.	Blown out charge.	Powder explosions.	Flying coal.		Gas explosions.	Falling coal, rock, etc.	Pit cars.	Various	From other causes.	From all causes.
First.....					2	2	2	47	16	11	76	78
Second.....								61	18	9	88	88
Third.....		1		1	1	3		39	13	7	59	62
Fourth.....								3	1	1	5	5
Fifth.....				1	4	5	2	40	27	18	87	92
Sixth.....			1			1	1	6	12	4	23	24
Seventh.....							2	35	23	24	84	84
Eighth.....	2			2	2	6	1	38	30	33	102	108
Ninth.....								20	20	13	53	53
Tenth.....								7	7	7	21	21
Eleventh.....		1		1	1	3	12	41	27	40	120	123
Twelfth.....			1			1	3	27	16	15	61	62
1912.....	2	2	2	5	10	21	23	364	210	182	779	800
1911.....	1	3	3	6	6	19	11	327	211	141	690	709
1910.....	2	10	1	7	8	28	14	369	188	143	714	742
1909.....	14	3		11	10	38	25	423	249	159	856	894
1908.....	8	3		11	14	36	35	402	209	137	783	819
1907.....	8	4	7	16	15	50	9	327	171	79	586	636
1906.....	7	1	6	9	9	32	6	253	110	79	448	480
1905.....	13	3	6	15	13	50	3	269	129	84	485	535
1904.....	6	5	2	29	12	54	6	264	123	60	453	507
1903.....	13	3	12	7	12	47	5	164	128	66	363	410
1902.....	15	1	1	6	5	28	2	198	125	53	378	406
1901.....		11	2	5	9	27	3	233	113	46	395	422
Twelve years	89	49	42	127	123	430	142	3,593	1,966	1,229	6,930	7,360

Table 91 gives the percentages of the number injured by the leading causes each year for twelve years.

TABLE 91—*Percentages of non-fatal accidents for twelve years—1901-1912—by causes.*

Years.	Use of powder.					From powder, other named causes and all causes.	Other causes.				All causes.				
	Blast explosions.	Blasts, premature.	Blown out charge.	Powder explosions.	Flying coal.		Gas explosions.	Falling coal, rock, etc.	Pit cars.	Various.	Powder.	Gas explosions.	Falling coal, rock, etc.	Pit cars.	Various.
1901.....	40.7	7.4	18.5	33.4	100.0	0.8	59.0	28.7	11.5	6.4	0.8	53.1	26.8	10.9	
1902.....	53.6	3.6	3.6	21.4	17.8	100.0	0.6	52.4	33.0	14.0	6.9	0.5	48.8	30.7	13.1
1903.....	27.7	6.3	25.5	14.9	25.5	100.0	1.4	45.2	35.3	18.1	11.5	1.2	40.0	31.2	16.1
1904.....	11.1	9.3	3.7	53.7	22.2	100.0	1.3	58.3	27.2	13.2	10.6	1.2	25.1	24.3	11.8
1905.....	26.0	6.0	12.0	30.0	26.0	100.0	6.2	55.5	26.6	11.7	9.3	0.6	50.3	24.2	15.7
1906.....	21.9	3.1	18.8	28.1	28.1	100.0	1.3	56.5	24.6	17.6	6.7	1.2	52.7	22.4	17.0
1907.....	16.0	8.0	14.0	32.0	30.0	100.0	1.5	55.8	29.2	13.5	7.9	1.4	51.4	26.9	12.4
1908.....	22.2	8.3	.....	30.6	38.9	100.0	4.5	51.4	26.7	17.4	4.4	4.3	49.1	25.5	16.7
1909.....	36.8	7.9	.....	29.0	26.3	100.0	2.9	49.4	29.1	18.6	4.2	2.8	47.3	27.9	17.8
1910.....	7.1	35.7	3.6	25.0	28.6	100.0	2.0	51.7	26.3	20.0	3.8	1.9	49.7	25.3	19.3
1911.....	5.2	15.8	15.8	31.6	31.6	100.0	1.6	47.4	30.6	20.4	2.7	1.5	46.1	29.8	19.9
1912.....	9.5	9.5	9.5	23.8	47.7	100.0	2.9	46.7	27.0	23.4	2.6	2.9	45.5	26.3	22.7
Twelve yrs.	20.7	11.4	9.8	29.5	28.6	100.0	2.0	51.9	28.4	17.7	5.8	2.0	48.8	26.7	16.7

Table 92. This table presents the range of ages, the average age and the total number injured by occupations.

TABLE 92—*Range of ages, average age and total number injured, by occupations.*

Occupations.	Number injured.	Range of ages—years.										Average age.
		Under 20.	20 but under 25.	25 but under 30.	30 but under 35.	35 but under 40.	40 but under 45.	45 but under 50.	50 but under 55.	55 but under 60.	60 and over.	
Blacksmiths.....	3			1		2						33
Cagers*.....	21		1	2	6	5	3	1	1	1		37
Carpenter.....	3		1		1						a1	40
Couplers.....	9	b3	3	2	1							22
Drivers†.....	168	c15	66	50	24	1	7	4				27
Engineer.....	1				1							33
Firemen.....	5		2	1	2							27
Foreman.....	1					1						38
Laborers.....	60	d5	14	10	6	8	5	3	3	3	e3	33
Loaders.....	36		8	4	8	7	2	4	1		f2	35
Machine helpers.....	7			1	5			1				34
Machine runners.....	38		2	9	7	6	8	4	2			35
Machinist.....	1						1					42
Mine examiners.....	4			1			3					39
Mine managers.....	3				3							31
Miners‡.....	372	g9	29	43	55	67	54	53	28	14	h15	38
Motormen.....	6		1	1	2		1	1				34
Operator.....	1				1							32
Pumpman.....	2				1			1				39
Shot firers.....	4					2	1	1				40
Spraggers.....	4	i1	1		2							26
Superintendent.....	1									1		55
Switchman.....	1		1									20
Timbermen.....	19		1	2	1	5	1	5	3		j1	41
Trackmen||.....	5					1		2	1			45
Trappers.....	13	k11							2			22
Trip riders.....	11	l2	7	1			1					23
Weighman.....	1								1			50
Total.....	800	46	137	128	126	105	87	80	42	19	22	34

* One, age not reported.

† One, age not reported.

‡ Five, age not reported.

|| One, age not reported.

a One, 67.

b Two, 17; one, 19.

c Four, 17; five, 18; six, 19.

d Two, 16; one, 17; two, 19.

e One, 70.

f One, 61; one, 68.

g One, 16; one, 17; three, 18; four, 19.

h One, 61; two, 63; four, 64; three, 65; one, 68.

i One, 18.

j One, 62.

k Five, 16; four, 17; one, 18; one, 19.

l One, 18; one, 19.

Table 93 shows the number of non-fatal accidents, the number caused by falling roof and sides and from all other causes, with percentages, for a series of thirty years. Fifty-four per cent of all the accidents was caused by falling roof, etc.

TABLE 93—*Non-fatal accidents from falling roof and sides, and other causes, with percentages caused by falling roof—thirty years.*

Years.	Non-fatal accidents.			Percentages—	
	Total.	Falling roof and sides.	All other causes.	Caused by falling roof or sides.	All other causes.
1883.....	231	130	101	56.28	43.72
1884.....	197	135	62	68.53	31.47
1885.....	176	118	58	67.00	33.00
1886.....	171	109	62	63.74	36.36
1887.....	180	124	56	68.88	31.12
1888.....	179	112	67	62.58	37.42
1889.....	201	129	72	64.17	35.83
1890.....	294	196	98	66.66	33.34
1891.....	367	227	140	61.85	38.15
1892.....	370	234	136	63.25	36.7
1893.....	403	254	149	63.03	36.97
1894.....	521	294	227	56.43	43.57
1895.....	605	338	267	55.87	44.13
1896.....	672	373	299	55.51	44.49
1897.....	518	310	208	59.85	40.15
1898.....	438	252	186	60.87	39.13
1899.....	597	335	262	56.12	43.88
1900.....	611	323	288	52.86	47.94
1901.....	422	233	189	55.21	44.79
1902.....	406	198	208	48.77	51.23
1903.....	410	190	220	46.34	53.66
1904.....	507	264	243	52.07	47.93
1905.....	535	271	264	50.66	49.34
1906.....	480	253	227	52.71	47.29
1907.....	636	327	309	51.42	48.58
1908.....	819	402	417	49.08	50.92
1909.....	894	423	471	47.30	52.70
1910.....	742	369	373	49.7	50.3
1911.....	709	327	382	46.1	53.9
1912.....	800	364	436	45.5	54.5
Total 30 years.....	14,091	7,614	6,477	54.0	46.0

Table 94 gives for thirty years the number killed and injured, with percentages, by falling roof and sides.

TABLE 94—*Total number killed and injured, with percentages of all accidents caused by falling roof or sides for thirty years.*

Years.	Number from all causes.			Per cent by falling roof and sides.		
	Killed.	Injured.	Total.	Killed.	Injured.	Total.
1883.....	134	231	365	30.0	56.28	47.7
1884.....	46	197	243	56.5	68.53	66.25
1885.....	39	176	215	51.3	67.0	64.18
1886.....	52	171	223	61.5	63.74	63.23
1887.....	41	180	221	68.3	68.88	68.77
1888.....	55	179	234	60.0	62.58	61.97
1889.....	42	201	243	61.9	64.17	63.78
1890.....	53	294	347	67.9	66.66	66.86
1891.....	60	367	427	55.0	61.85	60.88
1892.....	57	370	427	49.1	63.25	61.36
1893.....	69	403	472	69.6	63.03	63.98
1894.....	72	521	593	58.3	56.43	56.82
1895.....	75	605	680	50.7	55.87	55.59
1896.....	77	672	749	53.3	55.51	55.27
1897.....	69	518	587	66.7	59.85	60.65
1898.....	75	438	513	57.33	60.87	60.34
1899.....	84	597	681	60.71	56.12	56.68
1900.....	94	611	705	54.3	52.86	52.1
1901.....	99	422	521	56.43	55.21	55.45
1902.....	99	406	505	55.55	48.77	50.1
1903.....	156	410	566	50.64	46.24	47.53
1904.....	157	507	664	49.68	52.07	51.51
1905.....	199	535	734	40.20	50.64	47.82
1906.....	155	480	635	54.2	52.7	53.07
1907.....	165	636	801	50.91	51.42	51.31
1908.....	183	819	1,002	49.7	49.08	49.6
1909.....	213	894	1,107	39.4	47.3	45.8
1910.....	406	742	1,148	16.01	49.73	37.8
1911.....	157	709	866	51.0	46.1	47.0
1912.....	180	800	980	54.4	45.5	47.1
Total 30 years.....	3,363	14,091	17,454	47.1	54.0	52.7

Table 95. In this table is shown, by percentages, the increase or decrease in the number of men employed, tons produced and accidents, from year to year, for thirty years.

TABLE 95—*Percentages of increase and decrease from year to year of men employed, tons produced, men killed and men injured for a series of thirty years.*

Year.	Men employed.		Tons produced.		Killed.		Injured.	
	Increase.	Decrease.	Increase.	Decrease.	Increase.	Decrease.	Increase.	Decrease.
1883 to 1884.....	6.83	.....	0.7	.....	.....	65.67	.....	14.7
1885.....	1.45	.....	.....	3.06	.....	15.22	.....	10.66
1886.....	.....	0.38	.....	5.57	33.33	.....	.....	2.84
1887.....	3.71	.....	11.17	.....	.....	21.15	5.26	.....
1888.....	9.72	.....	15.34	.....	26.83	.....	.....	0.56
1889.....	2.26	.....	.....	2.17	.....	23.64	12.29	.....
1890.....	.....	5.00	8.97	.....	26.19	.....	46.27	.....
1891.....	15.31	.....	3.53	.....	13.2	.....	24.83	.....
1892.....	2.07	.....	14.06	.....	.....	5.00	0.82	.....
1893.....	5.23	.....	11.69	.....	21.05	.....	8.92	.....
1894.....	8.72	.....	.....	14.22	4.35	.....	29.28	.....
1895.....	0.40	.....	3.64	.....	4.17	.....	16.12	.....
1896.....	.....	4.7	11.56	.....	2.67	.....	11.7	.....
1897.....	.....	8.82	1.45	.....	.....	10.39	.....	22.32
1898.....	3.66	.....	.....	7.24	8.7	.....	.....	15.44
1899.....	5.61	.....	26.00	.....	12.00	.....	36.30	.....
1900.....	6.47	.....	7.34	.....	11.90	.....	2.35	.....
1901.....	12.08	.....	5.89	.....	5.32	.....	.....	30.93
1902.....	4.21	.....	12.71	.....	.....	.....	.....	3.8
1903.....	8.28	.....	16.44	.....	57.58	.....	0.99	.....
1904.....	9.96	.....	6.07	.....	0.64	.....	23.66	.....
1905.....	8.14	.....	0.28	.....	26.75	.....	5.52	.....
1906.....	5.15	.....	3.05	.....	.....	22.11	.....	10.28
1907.....	7.11	.....	24.74	.....	6.45	.....	32.50	.....
1908.....	6.19	.....	3.08	.....	10.91	.....	28.77	.....
1909.....	2.67	.....	.....	0.22	16.39	.....	9.16	.....
1910.....	2.61	.....	.....	0.91	90.61	.....	.....	17.0
1911.....	3.72	.....	2.97	.....	.....	61.33	.....	4.45
1912.....	2.58	.....	14.6	.....	14.6	.....	12.8	.....
Total 30 years.	231.7	.....	374.4	.....	34.3	.....	246.3	.....

COAL PRODUCTION OF ILLINOIS.

Table 96. We are indebted to the courtesy of Prof. H. Foster Bain for the statistics shown in this table from the year 1833 to 1881, inclusive.

The total production for the forty-nine years, as shown by Professor Bain, was 73,123,123 tons. The production for the years 1882 to 1910, inclusive, as made to the Bureau of Labor Statistics, was 708,914,114 tons. The output for 1911 and 1912, reported to the State Mining Board, is 107,679,339, making a total for the State since 1883 of 889,716,576 tons.

TABLE 96—*Coal production of Illinois—1833-1912.*

Year.	Quantity in tons.	Year.	Quantity in tons.
1833.....	6,000	1860.....	728,000
1834.....	7,500	1861.....	670,000
1835.....	8,000	1862.....	780,000
1836.....	10,000	1863.....	890,000
1837.....	12,500	1864.....	1,000,000
1838.....	14,000	1865.....	1,260,000
1839.....	15,038	1866.....	1,580,000
1840.....	61,967	1867.....	1,800,000
1841.....	35,000	1868.....	2,000,000
1842.....	58,000	1869.....	1,854,000
1843.....	75,000	1870.....	2,624,163
1844.....	120,000	1871.....	3,000,000
1845.....	165,000	1872.....	3,360,000
1846.....	165,000	1873.....	3,920,000
1847.....	180,000	1874.....	4,203,000
1848.....	200,000	1875.....	4,453,178
1849.....	260,000	1876.....	5,000,000
1850.....	300,000	1877.....	5,350,000
1851.....	320,000	1878.....	5,700,000
1852.....	340,000	1879.....	5,000,000
1853.....	375,000	1880.....	6,115,377
1854.....	385,000	1881.....	6,720,000
1855.....	400,000	Total 49 years.....	73,123,123
1856.....	410,000	Reported to Bureau of Labor 1882-1910.....	708,914,114
1857.....	450,000	Reported to State Mining Board...	107,679,339
1858.....	490,000	Total output of the State.....	889,716,576
1859.....	530,000		

REPORTS
of the
State Inspectors
of Mines.

FIRST INSPECTION DISTRICT—1912.

ANNUAL REPORT.

Counties—Grundy, LaSalle, Livingston and Will.

HECTOR McALLISTER, *Inspector*, Streator.*Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield:*

SIR—Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing counties of Grundy, LaSalle, Livingston and Will.

SUMMARY OF THE ITEMS SHOWN IN THE REPORT.

Number of counties producing coal.....	4
Number of shipping mines.....	24
Number of local mines.....	36
Number of new or reopened mines.....	6
Number of closed or abandoned mines.....	3
Number of miners.....	4,344
Others underground, men.....	924
Boys underground.....	102
Boys above ground.....	14
Others above ground.....	552
Total number of employes.....	5,936
Total tons of coal produced.....	2,612,556
Days of active operation, all mines.....	180
Kegs of powder used for blasting coal.....	26,754
Tons of coal shipped.....	1,892,803
Tons supplied to locomotives.....	69,102
Tons sold to local trade.....	225,377
Tons consumed and wasted at the mines.....	425,274
Number of fatal accidents.....	8
Number of non-fatal accidents.....	78
Number of employees to each fatal accident.....	742
Number of employees to each non-fatal accident.....	76
Tons of coal produced to each fatal accident.....	326,749
Tons of coal produced to each non-fatal accident.....	33,494
Ratio of fatal accidents per 1,000 employees.....	1.35

The following shows the coal production by counties, for the years ended June 30, 1911 and 1912, with the increase or decrease in each county:

Counties.	Total output—Tons.		Increase.	Decrease.
	1911.	1912.		
Grundy.....	601,393	756,388	154,955	.....
LaSalle.....	1,354,784	1,605,482	250,698	.....
Livingston.....	116,912	71,685	.....	45,227
Will.....	164,325	179,001	14,676	.....
Total.....	2,237,414	2,612,556	420,369	45,227
Net increase.....	.....	.....	375,142	.....

NEW AND ABANDONED MINES.

Six new mines have been opened and three have been abandoned this year.

CHANGE OF OWNERSHIP.

Ed. Turk has purchased the mine formerly operated by W. J. McMillin & Son, Streator, Livingston County.

Massey Brothers have purchased the mine formerly operated by Ben Davis & Son, Streator, LaSalle County.

MINE FIRES.

The engine and boiler house of the Spicer Coal Company, Seneca, LaSalle County, was destroyed by fire on the night of April 27, 1912.

CYCLONE WRECKS TOWER.

The top works of the Big Four Wilmington Coal Co.'s No. 5 mine, Carbon Hill, Grundy County, was destroyed by cyclone on the night of April 21, 1912.

FATAL ACCIDENTS.

September 5, 1911, Abarre Cesare, miner, aged 45 years, married, was killed instantly by an explosion of dynamite in the Wilmington Star Mining Co.'s No. 7 mine, Coal City, Grundy County. Deceased secured two sticks of dynamite with caps from the top boss, stating he was going to fire a brushing shot at noon. After receiving the dynamite he hurried into his working place, and it is supposed he made a hole in the coal with a pick and put the dynamite in thinking it would blow through to the next room, but, in some unaccountable manner, the dynamite exploded killing him instantly. He leaves a widow and five children.

September 8, 1911, Stany Shasulis, miner, aged 46 years, married, was killed instantly at the face of his working place by falling rock in the LaSalle County Carbon Co.'s No. 1 mine, Jonesville, LaSalle County. He leaves a widow and three children.

September 23, 1911, John Capra, miner, aged 27 years, married, was killed by blast explosion in the Wilmington Star Mining Co.'s No. 6 mine, Coal City, Grundy County. He leaves a widow and one child.

November 2, 1911, Robert Galbraith, miner, aged 20 years, single, was killed instantly at the face of his working place by fall of rock in the Brady Coal Co.'s mine, Pontiac, Livingston County.

November 21, 1911, George Wiltrakus, miner, aged 38 years, single, was killed instantly by a fall of rock at the face of his working place in the Oglesby Coal Co.'s mine, Oglesby, LaSalle County.

December 10, 1911, Abroma Boselli, driver, aged 30 years, married, employed in the LaSalle County Carbon Coal Co.'s No. 5 mine, Cedar Point, LaSalle County, was coming down grade on loaded trip of pit cars, and it is supposed he jumped off and was caught between the car and coal rib. He was taken to the hospital in LaSalle where he died the following morning. He leaves a widow and one child.

December 23, 1911, Martin Carra, miner, aged 35 years, married, was killed instantly by a fall of rock at the face of his working place in the Big Four Wilmington Coal Co.'s No. 6 mine, Eilene, Grundy County. He leaves a widow and one child.

February 25, 1912, W. H. Adams, hoisting engineer, aged 51 years, married, was burned by escaping steam at the LaSalle County Carbon Coal Co.'s No. 5 mine, Cedar Point, LaSalle County. He arrived at the mine about eight p. m., and as he did not go on duty until ten-thirty, he laid down underneath the engine house floor. About nine o'clock the engineer then on duty was running the cages up and down the shaft, when the throttle valve burst and Mr. Adams was so severely burned that he died at the hospital in LaSalle the following day. He leaves a widow and three children.

Respectfully submitted,

HECTOR McALLISTER,

State Inspector of Mines, First District, Streator, Ill.

Fatal casualties—First District—June 30, 1912.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Single.	Widow.	Children.	Dependents.	Cause of death
1911.										
Sept. 5	Abarre Cesare.....	45	Miner.....	Coal City.....	1	..	1	5	6	Dynamite explosion....
8	Stany Shasulis.....	46	do.....	Oglesby.....	1	..	1	3	2	Falling rock.....
23	John Capra.....	27	do.....	Coal City.....	1	..	1	1	2	Shot explosion.....
Nov. 2	Robt. Galbraith.....	20	do.....	Pontiac.....	..	1	..	..	..	Falling rock.....
21	George Wiltrakus.....	38	do.....	Oglesby.....	..	1	..	..	..	do.....
Dec. 10	Abroma Boselli.....	30	Driver.....	Cedar Point.....	1	..	1	1	2	Pit car.....
23	Martin Carra.....	35	Miner.....	Eileen.....	1	..	1	2	3	Falling rock.....
1912.										
Feb. 26	Wm. H. Adams.....	51	Engineer.....	LaSalle.....	1	..	1	3	..	Bursting steam valve...
	Total.....				6	2	6	15	15	

Recapitulation of fatal casualties—First District—1912.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Cedar Point.....	1	Driver.....	1	Blast explosion.....	1	Big Four Wilm.....	1
Coal City.....	2	Engineer.....	1	Bursting steam pipe..	1	Brady C. Co.....	1
Eileen.....	1	Miners.....	6	Dynamite blast.....	1	LaSalle Co.....	3
LaSalle.....	1			Falling rock.....	4	Oglesby.....	1
Oglesby.....	2			Pit car.....	1	Wilmington Star.....	2
Pontiac.....	1						
Total.....	8		8		8		8

Non-fatal casualties—First District—June 30, 1912.

Date.	Name.	Residence.	Age.	Married.	Single.	Children.	Dependents.	Character of injury and cause of accident.	Time lost—days.
1911.									
July 6	Pystox Pistisiyk	23 Deer Park		1				Leg injured, pit car	58
8	John Stringer	58 Streator		1				1 Back injured, falling rock	30
12	John Urouka	40 Oglesby		1	1			do	32
18	Joe Quiclo	63 Braidwood		1		5		7 Ankle injured, falling rock	180
Aug. 7	Bury King	22 Streator		1				1 Foot injured, pit car	40
10	Fred Brown	42 Oglesby		1		5		6 Shoulder broken, pit car	44
11	Chas. Bergman	46 Torino		1		5		6 Back injured, falling rock	42
13	Louis Chismarick	52 Streator		1		5		2 Hand injured, pit car	90
23	Wm. Gaull	30 Jonesville		1		3		4 Ankle injured, falling coal	36
25	Anton Busyates	30 Diamond		1				Head injured, pit car	45
31	Anton Pesmond	46 LaSalle		1		1		2 Leg injured, falling rock	79
Sept. 8	Joe Vangasupeu	54 S. Wilmington		1		6		5 Ankle injured, falling rock	42
13	Martin Pagliero	20 Cedar Point		1				Leg injured, falling coal	56
25	Andrew Wargo	46 Streator		1				Leg broken, falling rock	60
26	Andrew Jurio	42 S. Wilmington		1		6		7 Back broken, falling rock	35
Oct. 6	J. Besovan	40 Peru		1		4		5 Hand injured, falling coal	44
11	A. Sturkno	52 Oglesby		1				1 Ankle injured, falling coal	30
19	Joe Smigel	40 LaSalle		1		4		5 Rib broken, falling rock	40
19	Martin Koliochen	37 Streator		1		5		6 Back injured, falling rock	45
20	Chas. Thom	42 do		1		2		3 Arm broken, falling rock	30
26	P. Blesent	35 S. Wilmington		1		6		5 Ribs broken, falling rock	119
Nov. 11	Stany Rivines	25 Deer Park		1				Back broken, falling rock	178
11	Joe Gawbiano	45 S. Wilmington		1		1		2 Leg broken, falling coal	147
11	John Marfoduro	40 Oglesby		1				1 Leg injured, falling rock	90
14	Ed Vanvekei	45 Cedar Point		1		2		3 Arm injured, descending cage	55
15	Nick Revaldo	26 Coal City		1		1		2 Ankle injured, falling rock	74
15	M. Budziok	Peru		1		5		5 Leg broken, falling rock	*
21	Ladiseous Doola	18 LaSalle		1				Body injured, falling rock	33
22	John Hamilton	49 Oglesby		1				1 Foot injured, pit car	40
24	Anton Yerdis	38 Cedar Point		1				Foot injured, falling rock	51
Dec. 2	James Heuser	Peru		1		5		1 Foot injured, pit car	*
9	Wm. Jerdan	45 Eileen		1		2		3 Face and hands burned, gas explosion	40
11	Chas. Ogolis	40 Oglesby		1		3		4 Finger broken, falling rock	51
11	A. Zinanni	33 S. Wilmington		1		3		4 Back injured, lifting coal	35
14	Anton Rolfo	39 Coal City		1				1 Shoulder injured, pit car	76
15	L. Pinnick	64 S. Wilmington		1				Foot injured, falling rock	187
23	John Parrotti	Peru		1		2		1 do	79
26	Frank Pauleka	26 Oglesby		1				Leg broken, tail chain	134
27	Chas. Doherty	65 Braidwood		1				1 Finger injured, falling coal	49
30	Jas. Doyle	45 Streator		1		1		2 Face and hands burned, gas explosion	36
1912.									
Jan. 3	Peter Deruchia	38 Cedar Point		1				Arm injured, pit car	51
4	Mike Ferko	52 Streator		1		5		6 Hand injured, falling rock	30
8	Joe Lucian	19 Oglesby		1				Leg broken, falling rock	90
12	Wm. Coutts	19 do		1				Leg injured, fell down	42
16	Andrew Rivietta	40 Streator		1		5		5 Face injured, flying coal	30
19	S. Peresco	28 Cedar Point		1				Finger injured, pit car	43
19	Ed Price	39 S. Wilmington		1				1 Arm injured, crowbar	49
23	Mike Beston	41 LaSalle		1				Finger injured, pit car	87
25	John Klossman	44 Jonesville		1				Toe broken, pit car	85
26	J. Lishewski	31 LaSalle		1		2		3 Back injured, lifting coal	44
Feb. 3	Mike Beston	36 do		1				Finger injured, falling rock	30
3	Bart Dinelli	34 S. Wilmington		1		2		3 Back injured, falling coal	70
6	S. Ricci	26 Cedar Point		1				Foot injured, falling coal	79
6	William Herron	40 Coal City		1		4		5 Foot injured, railroad car	46
10	August Velt	47 LaSalle		1		2		3 Eye injured, flying sulphur	77
12	Albert Johnson	64 Torino		1				Foot injured, falling rock	60
13	John Boggetta	40 do		1		7		8 Leg injured, falling coal	60
14	Louis Loogs	24 LaSalle		1				Finger cut off, falling rock	50
14	Wm. McAllister	64 Streator		1		1		1 Body injured, falling rock	98
15	John Buckley	28 S. Wilmington		1		2		3 Leg injured, falling rock	63
16	E. Lardi	35 S. Wilmington		1		4		5 Back injured, falling rock	49
16	Ben Peberella	40 LaSalle		1		3		4 Arm injured, pit car	56
22	Sam Welch	48 Oglesby		1		8		9 Foot injured, falling rock	30
23	Thos. Ross	55 Braidwood		1		5		3 Back injured, falling rock	98

Non-fatal casualties—First District—Concluded.

Date.	Name.	Age.	Residence.	Married. Single.	Children.	Dependents.	Character of injury and cause of accident.	Time lost—days.
1912.								
Mar. 2	Ben Brigga.....	44	S. Wilmington.	1	1	2	Finger broken, falling coal.....	35
12	John Peckinini.....	49	do.....	1	1	2	Toe broken, falling rock.....	35
22	John Plasski.....	39	LaSalle.....	1	1	1	Leg broken, coal falling down shaft.....	*
25	Ed Bennett.....	38	Cedar Point.....	1	2	3	Finger cut off, falling coal.....	44
26	Pasq Enrica.....	42	S. Wilmington.	1	8	6	Finger broken, falling rock.....	42
28	August Schult.....	45	Streator.....	1	1	1	Leg injured, flying coal.....	62
29	T. Bearhart.....	35	LaSalle.....	1	3	4	Leg injured, pit cars.....	37
Apr. 17	C. Hartnett.....	42	do.....	1	1	1	Leg broken, knocked down.....	72
21	Victor Johnson.....	35	Deer Park.....	1	1	2	Hand injured, fan engine.....	35
May 4	Thos. Evans.....	30	Streator.....	1	2	3	Toe cut off, pit car.....	43
18	Emil Rureck.....	18	Godley.....	1	1	1	Collar bone broken, pit car.....	42
June 8	John Braoine.....	45	S. Wilmington.	1	1	2	Leg broken, falling coal.....	*
13	Evan Marfell.....	36	Crockettsville.....	1	1	2	Foot injured, falling rock.....	*
20	John Stock.....	30	Oglesby.....	1	1	1	Finger injured, falling rock.....	*
	Total.....			54	24	150	179	

* Not returned to work.

Total number injured..... 78
 Not returned to work, July 1, 1912..... 6

Number returned..... 72

Time lost by men returned to work, days..... 4,396
 Average days lost..... 61.06

Recapitulation of non-fatal casualties—First District—1912.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Braidwood.....	3	Blacksmiths....	1	Cage descending.....	1	Big Four Wilmington.....	2
Cedar Point.....	7	Cagers.....	2	Coal fell down shaft..	1	Cahill.....	3
Coal City.....	3	Drivers.....	11	Crowbar.....	1	Chi-Wilm. & Ver.....	26
Crockettsville....	1	Laborers.....	3	Falling coal.....	14	Ill. Zinc.....	8
Deer Park.....	3	Miners.....	56	Falling rock.....	33	LaSalle Co.....	19
Diamond.....	1	Pumpman.....	1	Fan engine.....	1	Matheison & Hegeler.....	3
Eileen.....	1	Trackmen.....	3	Flying coal.....	2	Murphy-Linskey & Kasher.....	3
Godley.....	1	Triprider.....	1	Flying sulphur.....	1	Oglesby.....	7
Jonesville.....	2			Fell down.....	1	Wilm. C. M. Mfg.....	4
LaSalle.....	12			Gas explosion.....	2	Wilmington Star.....	3
Oglesby.....	11			Knocked down.....	1		
Peru.....	4			Lifting coal.....	2		
So. Wilmington..	14			Pit car.....	16		
Streator.....	12			Railroad car.....	1		
Torino.....	3			Tail chain.....	1		
Total.....	78		78		78		78

Recapitulation of non-fatal casualties, nature of injuries, conjugal relations and time lost—First District—1912.

Nature of injuries.	Number.	Married.	Single.	Children.	Dependents.	Time lost—days.		Percent- age of injuries.
						Total.	Average.	
Ankles injured.....	5	5	.....	15	19	362	72.40	6.42
Arm broken.....	1	1	.....	2	3	30	30.00	1.28
Arms injured.....	4	3	1	5	8	211	52.75	5.13
Backs broken.....	2	1	1	6	7	213	106.50	2.56
Backs injured.....	9	8	1	26	31	445	49.44	11.54
Bodies injured.....	2	1	1	1	1	131	65.50	2.56
Collar bone broken.....	1	.....	1	.....	.....	42	42.00	1.28
Eye injured.....	1	1	.....	2	3	77	77.00	1.28
Face and hands burned.....	2	2	.....	3	5	76	38.00	2.56
Face injured.....	1	1	.....	5	5	30	30.00	1.28
Feet injured.....	11	7	4	20	20	612	68.00	14.11
Fingers broken.....	3	3	.....	12	12	128	42.67	3.85
Fingers cut off.....	2	1	1	2	3	94	47.00	2.56
Fingers injured.....	5	1	4	.....	1	209	52.25	6.42
Hands injured.....	4	4	.....	15	15	199	49.75	5.13
Head injured.....	1	.....	1	.....	.....	45	45.00	1.28
Legs broken.....	8	4	4	6	8	503	100.60	10.26
Legs injured.....	9	6	3	13	18	547	60.78	11.54
Ribs broken.....	2	2	.....	10	10	159	79.50	2.56
Shoulder broken.....	1	1	.....	5	6	44	44.00	1.28
Shoulder injured.....	1	1	.....	.....	1	76	76.00	1.28
Toes broken.....	2	.....	2	.....	.....	120	60.00	2.56
Toes cut off.....	1	1	.....	2	3	43	43.00	1.28
Total.....	78	54	24	150	179	4,396	61.06	100.00

Grundy County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	C., W. & V. Coal Co., No. 1.....	So. Wilmington.....		104,310	73,685	177,995
2	Big Four Wilm. Coal Co., No. 6.....	Coal City.....	107,299	42,652	18,386	168,337
3	C., W. & V. Coal Co., No. 3.....	So. Wilmington.....		104,750	55,055	159,805
4	Wilmington Star Mining Co., No. 6.....	Coal City.....	21,363	42,243	23,301	86,907
5	Big Four Wilmington Coal Co., No. 5.....	Carbon Hill.....	37,830	26,235	14,882	78,947
6	Wilmington Star Mining Co., No. 7.....	Coal City.....	764	36,253	33,598	70,615
Total.....			167,256	356,443	218,907	742,606
LOCAL MINES.						
1	Wood Coal Co.....	Morris.....		2,520	250	2,770
2	John Stalker.....	do.....	2,302			2,302
3	Jas. Bell.....	do.....		1,970	270	2,240
4	Clayton Bros.....	do.....		1,920	50	1,970
5	John Heather.....	do.....		1,350	150	1,500
6	William Hodson.....	do.....		1,500		1,500
7	Brynes & Fleming.....	do.....		1,500		1,500
Total.....			2,302	10,760	720	13,782
Total—13 mines.....			169,558	367,203	219,627	756,388

Mines reported for 1911, 15.

Abandoned mines, 2.

Mines in 1912, 13.

First District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Accidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
117,195	60,800	.....	194	291	96	387	177,995	.....	.....	10	Solid...	.....	40	1
159,356	8,981	26	223	320	85	405	168,337	.....	1	2	U. C....	.....	19	2
105,297	54,508	.....	194	251	56	307	159,805	.....	.....	4	.....	.....	18	3
82,516	4,391	1,876	228	137	63	200	86,907	.....	1	2	Both...	.....	16	4
64,831	14,116	1,973	201	163	50	213	78,947	.....	.....	.....	do....	.....	17	5
65,162	5,453	1,407	228	104	45	149	70,615	.....	1	1	do....	.....	10	6
594,357	148,249	5,282	211	1,266	395	1,661	742,606	.....	3	19	.....	.....	120	.....
.....
.....	2,770	.....	255	7	1	8	2,770	.....	.....	.....	.....	.....	.....	1
.....	2,302	.....	216	6	1	7	2,302	.....	.....	.....	.....	.....	.....	2
.....	2,240	.....	230	8	1	9	2,240	.....	.....	.....	.....	.....	.....	3
.....	1,970	.....	240	4	1	5	1,970	.....	.....	.....	.....	.....	.....	4
.....	1,500	.....	150	4	1	5	1,500	.....	.....	.....	.....	.....	.....	5
.....	1,500	.....	140	9	1	10	1,500	.....	.....	.....	.....	.....	.....	6
.....	1,500	.....	160	6	1	7	1,500	.....	.....	.....	.....	.....	.....	7
.....	13,782	.....	199	44	7	51	13,782	.....	.....	.....	.....	.....	.....	.....
594,357	162,031	5,282	204	1,310	402	1,712	756,388	.....	3	19	.....	.....	120	.....

LaSalle County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	Oglesby Coal Co., Oglesby.....	Oglesby.....	6,013	141,713	58,011	205,737
2	LaSalle Co. C. C. Co., No. 5.....	LaSalle.....	519	83,492	121,363	205,374
3	LaSalle Co. C. C. Co., No. 1.....	do.....	1,766	68,401	98,229	168,396
4	LaSalle Co. C. C. Co., LaSalle.....	do.....	24,035	58,709	62,535	145,279
5	C., W. & V. Coal Co., No. 3.....	Streator.....	1,438	92,044	47,320	140,802
6	C., W. & V. Coal Co., No. 2.....	do.....		48,712	74,266	122,978
7	LaSalle Co. C. C. Co., Union.....	LaSalle.....	1,121	39,179	58,736	99,036
8	Illinois Zinc Co.....	Peru.....	75,585			75,585
9	Harrison Coal Co.....	Streator.....		30,203	44,465	74,668
10	Acme Coal Co., Acme.....	do.....		31,527	24,787	56,314
11	Cahill Coal Co., No. 1.....	Peru.....	27,810	15,270	6,190	49,270
12	Rutland Coal Co., Rutland.....	Rutland.....	7,907	20,160	12,599	40,666
13	LaSalle Co. C. C. Co., Rockwell.....	LaSalle.....	40	3,997	5,650	9,687
14	Spicer Coal Co., No. 1.....	Marseilles.....	4,079	3,870	920	8,869
15	Willfred Coal Co.....	Seneca.....	1,938			1,938
Total.....			152,251	637,277	615,071	1,404,599
LOCAL MINES.						
1	Matthiessen & Hegeler Zinc Co.....	LaSalle.....	141,090			141,090
2	Manufacturers Coal Co.....	Marseilles.....	25,942			25,942
3	Stobs Coal Co.....	Streator.....	1,130	3,710	3,710	8,550
4	Munts Coal Co.....	LaSalle.....		4,768	2,386	7,154
5	Wm. Francis & Co.....	Streator.....	4,719			4,719
6	Mitchell Bros.....	do.....	3,000			3,000
7	Brooker Bros.....	Utica.....		2,000	50	2,050
8	Oscar Kimes.....	Streator.....	43	1,157	462	1,662
9	D. W. Hill & Co.....	do.....		1,188	296	1,484
10	Fred Scott.....	do.....	500	200	50	750
11	LaKatos & Uhrin.....	do.....	650			650
12	Wm. Bottomley.....	Utica.....	632			632
13	Wm. Lawton.....	Streator.....	400	200		600
14	Chas. Handee.....	Ottawa.....	250	350		600
15	George Steele.....	do.....	150	250		400
16	Ben Davis & Son.....	Streator.....	350			350
17	L. W. Brewer.....	Ottawa.....		215	50	265
18	Hurst & Howell.....	do.....	260			260
19	James McCullough.....	do.....	100	125	25	250
20	John McClemon & Wear.....	Kangley.....	250			250
21	R. H. Burgen.....	Ottawa.....	200	25		225
Total.....			179,666	14,188	7,029	200,883
Total—36 mines.....			331,917	651,465	622,100	1,605,482

Mines reported for 1911, 31.

New mines, 5.

Mines in 1912, 36.

First District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Accidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
186,864	18,873	.....	233	301	142	443	205,737	.....	1	7	U. C....	46		1
192,086	13,288	.....	220	322	118	440	205,374	.....	2	7	do....	29		2
154,997	13,399	.....	206	303	81	384	168,396	.....	1	3	do....	50		3
79,955	65,324	.....	230	265	85	350	145,279	.....		9	do....	44		4
134,532	6,270	3,980	256	153	62	215	140,802	.....		8	do....	20		5
97,707	25,271	2,310	200	182	77	259	122,978	.....		4	do....	20		6
65,353	33,683	460	194	177	63	240	99,036	.....			do....	40		7
72,184	3,401	3,056	267	104	86	190	75,585	.....		8	Solid..	21		8
55,763	18,905	1,925	232	120	30	150	74,668	.....			U. C....	10		9
28,308	28,006	.....	184	75	35	110	56,314	.....			U. C....	10		10
26,580	22,690	.....	216	95	48	143	49,270	.....		3	Solid..	20		11
25,576	15,090	.....	222	73	30	103	40,666	.....			U. C....	12		12
8,882	805	.....	21	143	76	219	9,687	.....			do....	16		13
6,043	2,826	.....	145	28	12	40	8,869	.....			do....	1		14
400	1,538	.....	104	16	17	33	1,938	.....			do....	2		15
1,135,230	269,369	11,731	197	2,357	962	3,319	1,404,599	.....	4	49	.....	341		
.....
.....	141,090	6,204	297	86	36	122	41,090	.....		3	.....			1
.....	25,942	.....	198	60	20	80	25,942	.....			.....			2
.....	8,550	.....	113	20	8	28	8,550	.....			.....			3
.....	7,154	265	175	20	10	30	7,154	.....			.....			4
.....	4,719	142	150	8	2	10	4,719	.....			.....			5
.....	3,000	5	295	3	1	4	3,000	.....			.....			6
.....	2,050	50	275	6	2	8	2,050	.....			.....			7
.....	1,662	.....	180	4	1	5	1,660	.....			.....			8
.....	1,484	20	200	3	1	4	1,484	.....			.....			9
.....	750	50	200	3	.....	3	752	.....			.....			10
.....	650	12	160	3	.....	3	650	.....			.....			11
.....	632	3	158	2	1	3	632	.....			.....			12
.....	600	8	125	2	.....	2	600	.....			.....			13
.....	600	.....	109	3	.....	3	600	.....			.....			14
.....	400	.....	125	2	.....	2	400	.....			.....			15
.....	350	.....	125	3	1	4	350	.....			.....			16
.....	265	.....	95	2	.....	2	265	.....			.....			17
.....	260	.....	115	2	.....	2	260	.....			.....			18
.....	250	.....	90	2	.....	2	250	.....			.....			19
.....	250	.....	180	2	.....	2	250	.....			.....			20
.....	225	.....	115	2	.....	2	225	.....			.....			21
.....	200,883	6,759	165	238	83	321	200,883	.....	3	.....	.....	.....	.....	.....
1,135,230	470,252	18,490	175	2,595	962	3,640	1,605,482	.....	4	52	.....	.....	.....	.....

Livingston County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	Fairbury Coal Co., W. M.	Fairbury.....	19,231	1,918	8,533	29,682
LOCAL MINES.						
1	Fairbury Miners Corp. C. Co.	Fairbury.....	3,415	4,634	5,976	14,025
2	Streator Clay Mfg. Co.	Streator.....	13,600			13,600
3	Cardiff Coal Co.	Cardiff.....	5,309			5,309
4	Brady Coal Co.	Pontiac.....	2,267	1,000		3,267
5	Ed. E. Evans.....	Streator.....		2,400	800	3,200
6	Streator Aqueduct Co.	do.....	2,221			2,221
7	W. J. McMillen.....	do.....	241	75	65	381
Total.....			27,053	8,109	6,841	42,003
Total—8 mines.....			46,284	10,027	15,374	71,685

Mines reported for 1911, 8.

New mines, 1.

Abandoned mines, 1.

Mines in 1912, 8.

First District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Acci- dents.		Blasting coal—from solid or undercut or both.	Number of animals under-ground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
4,793	24,889	1,400	216	30	15	45	29,682	.....	.....	.....	Solid...	.....	.....	2 1
.....	14,025	897	225	12	9	21	14,025	.....	.....	.....	.....	.....	.....	1
.....	13,600	225	343	14	12	26	6,800	6,800	.....	.....	.....	.....	.....	2
.....	5,309	.....	114	19	13	32	5,309	.....	.....	.....	.....	.....	.....	3
.....	3,267	178	160	10	2	12	3,267	.....	1	.....	.....	.....	.....	4
.....	3,200	250	250	6	2	8	3,200	.....	.....	.....	.....	.....	.....	5
.....	2,221	32	201	4	1	5	2,221	.....	.....	.....	.....	.....	.....	6
.....	381	.....	126	4	2	6	381	.....	.....	.....	.....	.....	.....	7
.....	42,003	1,582	203	69	41	110	35,203	6,800	1	.....	.....	.....	.....	.....
4,793	66,892	2,982	204	99	56	155	64,885	6,800	1	.....	.....	.....	.....	2

Will County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	Wilm. Coal Mining Mfg. Co., No. 6.....	Torino.....	102,662			102,662
2	Murphy, Linskey & Kasher C. Co., No. 4.	Braidwood.....	6,287	37,884	27,610	71,781
	Total		108,949	37,884	27,610	174,443
LOCAL MINES.						
1	Oswald & Young.....	Braidwood.....	4,558			4,558
	Total—3 mines.....		113,507	37,884	27,610	179,001

Mines reported for 1911, 3.

Mines in 1912, 3.

Shipping mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons.						Total.	Disposition of out-put—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
Grundy.....	6	167,256	356,443	36,017	.....	162,299	20,591	742,606	594,357	148,249
LaSalle.....	15	152,251	637,277	280,849	17,123	239,201	77,898	1,404,599	1,135,230	269,369
Livingston....	1	19,231	1,918	.....	511	975	7,047	29,682	4,793	24,889
Will.....	2	108,949	37,884	.....	5,855	20,655	1,100	174,443	158,423	16,020
Total.....	24	447,687	1,033,522	316,860	23,489	423,130	106,636	2,351,330	1,892,803	458,527

First District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Accidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
93,844	8,818	.....	219	195	55	250	102,662	.....	.....	4	Solid...	.....	30	1
64,579	7,202	.....	218	130	32	162	71,781	.....	.....	3	do....	.....	11	2
158,423	16,020	.....	219	325	87	412	174,443	.....	.....	7	.....	.....	.....	.....
.....	.....	.....	196	15	2	17	4,558	.....	.....	.....	.....	.....	.....	1
158,423	16,020	.....	211	340	89	429	179,001	.....	.....	7	.....	.....	.....	.....

counties—First District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees.					Tons mined.		Blasting coal		
		Underground.			All above ground.	Total.	By hand.	By machine.	From solid—tons.	Undercut—tons.	Both methods—tons.
		Miners.	Others.	Boys.							
5,282	211	1,266	255	30	110	1,661	742,606	.....	177,995	168,337	396,274
11,731	197	2,357	560	63	339	3,319	1,404,599	.....	124,855	1,279,744	.....
1,400	216	30	9	.....	6	45	29,682	.....	29,682	.....	.....
.....	219	325	58	.....	29	412	174,443	.....	174,443	.....	.....
18,413	202	3,978	882	93	484	5,437	2,351,330	.....	506,975	1,448,081	396,274

Local mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons						Total.	Disposition of output—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
Grundy.....	7	2,302	10,760	720	.....	.....	.....	13,782	.....	13,782
LaSalle.....	21	179,666	14,188	.....	.....	.....	7,029	200,883	.....	200,883
Livingston....	7	27,053	8,109	65	6,776	.....	.....	42,003	.....	42,003
Will.....	1	4,558	.....	.....	.....	.....	.....	4,558	.....	4,558
Total.....	36	213,579	33,057	785	6,776	.....	7,029	261,226	.....	261,226
The District...	60	661,266	1,066,579	317,651	30,265	423,130	113,665	2,612,556	1,892,803	719,753

Whole number of mines reported for 1911, 57.

Number of new mines opened during the year, 6.

Number of mines abandoned during the year, 3.

Whole number of mines reported for 1912, 60.

All mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons.						Total.	Disposition of output—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
Grundy.....	13	169,558	367,203	36,737	.....	162,299	20,591	756,388	594,357	162,031
LaSalle.....	36	331,917	651,465	280,849	17,123	239,201	84,927	1,605,482	1,135,230	470,252
Livingston....	8	46,284	10,027	65	7,287	975	7,047	71,685	4,793	66,892
Will.....	3	113,507	37,884	.....	5,855	20,655	1,100	179,001	158,423	20,578
Total.....	60	661,266	1,066,579	317,651	30,265	423,130	113,665	2,612,556	1,892,803	719,753

counties—First District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees.					Tons mined.		Blasting coal		
		Underground.			All above ground.	Total.	By hand.	By machine.	From solid—tons.	Undercut—tons.	Both methods—tons
		Miners	Others.	Boys.							
.....	199	44	.....	.....	7	51	13,782	.....	.....	.....	.....
6,759	165	238	25	9	49	321	200,883	.....	.....	.....	.....
1,582	203	69	17	.....	24	110	35,203	6,800	.....	.....	.....
.....	196	15	.....	.....	2	17	4,558	.....	.....	.....	.....
8,341	196	366	42	9	82	499	254,426	6,800	.....	.....	.....
26,754	189	4,344	924	1,021	566	5,936	2,605,756	6,800	.....	.....	.....

counties—First District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees.					Tons mined.		Blasting coal.		
		Underground.			All above ground.	Total.	By hand.	By machine.	From solid—tons.	Undercut—tons.	Both methods—tons.
		Miners.	Others.	Boys.							
5,282	204	1,310	255	30	117	1,712	756,388	.....	.....	.....	.....
18,490	175	2,595	585	72	388	3,640	1,605,482	.....	.....	.....	.....
2,982	204	99	26	.....	30	155	64,885	6,800	.....	.....	.....
.....	211	340	58	.....	31	429	179,001	.....	.....	.....	.....
26,754	180	4,344	924	102	566	5,936	2,605,756	6,800	.....	.....	.....

SECOND INSPECTION DISTRICT—1912.

ANNUAL REPORT.

Counties—Bureau, Henry, Knox, Mercer, Rock Island, Stark, Warren.

THOMAS HUDSON, *Inspector*, Galva.

Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield:

SIR—Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing counties of Bureau, Henry, Knox, Mercer, Rock Island, Stark and Warren.

SUMMARY OF THE ITEMS SHOWN IN THE REPORT.

Number of counties producing coal.....	7
Number of shipping mines.....	13
Number of local mines.....	92
Number of new or reopened mines.....	17
Number of closed or abandoned mines.....	20
Number of miners.....	3,731
Others underground, men.....	817
Boys underground.....	122
Boys above ground.....	1
Others above ground.....	417
Total number of employees.....	5,088
Total tons of coal produced.....	2,250,393
Days of active operation, all mines.....	152
Kegs of powder used for blasting coal.....	26,348
Tons of coal shipped.....	1,874,232
Tons supplied to locomotives.....	32,424
Tons sold to local trade.....	239,560
Tons consumed and wasted at the mines.....	104,177
Number of fatal accidents.....	6
Number of non-fatal accidents.....	88
Number of employees to each fatal accident.....	848
Number of employees to each non-fatal accident.....	58
Tons of coal produced to each fatal accident.....	375,066
Tons of coal produced to each non-fatal accident.....	25,573
Ratio of fatal accidents per 1,000 employees.....	1.18

The coal production of this district for the years ended June 30, 1911 and 1912, is shown by counties in the following table:

Counties.	Total output—tons.		Increase.	Decrease.
	1911.	1912.		
Bureau.....	1,234,121	1,681,103	446,982	
Henry.....	135,811	87,171		48,640
Knox.....	45,245	34,517		10,728
Mercer.....	261,355	334,662	73,307	
Rock Island.....	76,660	71,696		4,964
Stark.....	31,330	32,746	1,416	
Warren.....	12,631	8,498		4,133
Total.....	1,797,153	2,250,393	521,705	68,465
Net increase.....			453,240	

NEW AND ABANDONED MINES.

Seventeen new or reopened mines and twenty abandoned is the record for this year. All of the former are local mines and one shipping and nineteen local mines have been abandoned.

PROSPECTIVE.

Not much change can be expected in the coal production of the second district the coming year.

A slope is being put in to develop a small acreage of known workable coal. The product of the mine will be consumed at the electric power plant of Rock Island Southern Railway Co., on Edwards River. The mine and power plant are quite close together.

The mine operated by the Kewanee Coal Company at Kewanee, Henry Co., has not resumed active operations since the suspension April 1. The mine is practically worked out, about 15,000 tons in pillars remain. The mine is being kept open, and operated in a limited way for local trade. The coming winter will in all probability see this mine worked out and abandoned.

I have had the assistance and coöperation of county mine inspectors in Bureau, Henry, Knox, Mercer, Stark and Warren counties. Their principal work has been the care and inspection of the local mines in their respective counties.

FATAL ACCIDENTS.

July 24, 1911, George Weberski, miner, aged 33 years, married, employed at the No. 3 mine of the Spring Valley Coal Co., Spring Valley, Bureau County, was killed by a fall of coal. He leaves a widow and five children.

August 18, 1911, Thomas Armstrong, miner, aged 33 years, married, was killed by a fall of slate at his working place in the mine of T. H. Milan Bros., Soperville, Knox County. He leaves a widow.

September 12, 1911, Edward Donovan, laborer, aged 51 years, married, was run over and killed by pit-cars in the Marquette Third Vein Coal Company's mine, Marquette, Bureau County. He leaves a widow.

January 22, 1912, Hezekiah Taylor, miner, aged 57 years, married, was instantly killed by a fall of rock at his working place in the Andrews Coal Co.'s mine, Wyoming, Stark County. He leaves a widow and two children.

March 5, 1912, Andrew Johnson, timberman, aged 43 years, married, employed at the No. 2 mine of the Kewanee Coal Co., was crushed between two railroad cars, from the effects of which he died in the hospital at Kewanee about two hours after the accident. He leaves a widow and two children.

March 18, 1912, Charles Sass, driver, aged 22 years, single, employed at the Coal Valley Mining Co.'s No. 3 mine, was killed. The exact cause of his death is not definitely known, but it is supposed he was kicked by a mule.

Respectfully submitted,

THOMAS HUDSON,

State Inspector of Mines, Second District, Galva, Ill.

Fatal casualties—Second District—June 30, 1912.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Single.	Widow.	Children.	Dependents.	Cause of death.
1911.										
July 24	George Weberski	33	Miner	Spring Valley	1	1	5	6		Falling coal
Aug. 18	Thos. Armstrong	33	do	Soperville	1	1		1		Falling slate
Sept. 12	Edward Donovan	51	Laborer	Marquette	1	1		1		Pit cars
1912.										
Jan. 22	Hezekiah Saylor	57	Miner	Wyoming	1	1	5	3		Falling rock
Mar. 5	Andrew Johnson	43	Timberman	Kewanee	1	1	2	3		Railroad cars
18	Charles Sass	22	Driver	Mathersville		1				Kicked by mule
	Total				5	1	5	12	14	

Recapitulation of fatal casualties—Second District—1912.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Kewanee	1	Driver	1	Falling coal	1	Andrews	1
Marquette	1	Laborer	1	Falling rock	1	Coal Valley	1
Mathersville	1	Miners	3	Falling slate	1	Kewanee	1
Soperville	1	Timberman	1	Kicked by mule	1	Marquette 3d Vein	1
Spring Valley	1			Pit cars	1	Milan, T. H.	1
Wyoming	1			Railroad cars	1	Springfield Valley	1
Total	6		6		6		6

Non-fatal casualties—Second District—June 30, 1912.

Date.	Name.	Residence.	Age.	Married.	Single.	Children.	Dependents.	Character of injury and cause of accident.	Time lost—days.
1911.									
July 15	James Lynch.....	20 Spring Valley..	1	1				Foot injured, pit car.....	31
15	Dom. Jackson.....	40 Seatonville.....	1	1				Jaw and ribs broken, falling roof.....	136
17	John Podavitch.....	30 Spring Valley..	1	3	4			Body injured, pit cars.....	81
20	David Hutchinson..	53 Cherry.....	1	2	3			Body injured, falling roof.....	125
28	Anton Petkus.....	45 Spring Valley..	1	2	3			Head injured, falling roof.....	*
31	John Raisbeck.....	50 Cable.....	1	4	5			Back injured, falling roof.....	49
Aug. 1	Pete Budavitch.....	50 Spring Valley..	1	1				Ankle injured, falling coal.....	40
7	S. F. Grear.....	55 Sherrard.....	1	3	4			Collar bone broken, falling roof.....	68
9	Frank Voglinski.....	48 Spring Valley..	1	4	5			Leg injured, pit car.....	39
21	Luigi Sabitana.....	47 do.....	1	2	3			Rib broken, falling roof.....	49
23	John Maddis.....	37 do.....	1	1				Finger injured, falling roof.....	30
Sept. 2	Dom. Coller.....	30 do.....	1	1				Back injured, falling roof.....	30
5	Modiste Mantino.....	24 Seatonville.....	1	1				Hand injured, falling coal.....	33
12	Angelo Braghina.....	38 Spring Valley..	1	1	2			Leg broken, falling coal.....	42
12	Cass Hubert.....	23 Seatonville.....	1	1				Foot injured, falling roof.....	40
13	Frank Salimini.....	33 Cherry.....	1	4	5			Arm injured, falling roof.....	33
19	John Dutskus.....	38 Spring Valley..	1	3	4			Leg broken, falling roof.....	139
19	Pete Annotti.....	39 do.....	1	3	4			Back injured, falling coal.....	130
19	Dom. Vitzoski.....	35 do.....	1	1				Leg injured, falling coal.....	30
22	John Coshinas.....	40 do.....	1	1				Leg injured, pit car.....	35
24	Carlo Dezuti.....	45 do.....	1	5	6			Finger injured, falling coal.....	143
21	P. Doyle.....	40 Marquette.....	1	1				Body injured, pit car.....	80
27	Wm. Yondiblus.....	30 Spring Valley..	1	3	4			Leg injured, pit car.....	54
Oct. 2	Anton Sarrugga.....	26 Dalzell.....	1	1				Head injured, falling coal.....	49
2	Frank Pascoe.....	27 Sherrard.....	1	2	3			Leg broken, falling roof.....	94
11	Nels. P. Schultz.....	50 Spring Valley..	1	1	2			Leg broken, falling coal.....	*
17	Wm. McConnell.....	40 Marquette.....	1	1	2			Collar bone broken, falling coal.....	60
17	Joe. Stephen.....	35 Spring Valley..	1	4	5			Foot injured, falling roof.....	30
Nov. 2	Mike Kavoloski.....	23 do.....	1	1	2			Back injured, falling roof.....	*
14	Chas. Wells.....	29 Marquette.....	1	1				Leg broken, falling coal.....	*
20	Alex. Coszita.....	40 Dalzell.....	1	4	5			Leg broken, falling coal.....	182
24	Louis Remis.....	25 Spring Valley..	1	1				Leg injured, falling roof.....	60
25	Louis Luritto.....	18 do.....	1	1				Leg broken, falling coal.....	93
Dec. 2	George Hawton.....	22 Viola.....	1	1				Hand injured, R. R. car.....	60
2	James Farrari.....	26 Cherry.....	1	3	4			Leg broken, pit car.....	150
10	Chas. Kaminski.....	48 do.....	1	7	8			Leg broken, falling roof.....	*
11	Hugh Lennehan.....	18 Spring Valley..	1	1				Finger injured, tail chain.....	35
13	James Caveglia.....	46 do.....	1	5	6			Finger injured, falling coal.....	35
14	Stinie Yankowiski.....	41 Seatonville.....	1	1	1			Leg injured, falling roof.....	86
18	Anton Kruger.....	59 Spring Valley..	1	6	6			Foot injured, fell from ladder.....	69
20	John Coon.....	68 Coal Valley.....	1	1				Hand injured, falling coal.....	60
21	Henry Hamlin.....	49 Spring Valley..	1	1				Collar bone broken, falling coal.....	*
21	Tim Sullivan.....	35 do.....	1	1				Finger broken, falling coal.....	*
27	Chas. Bush.....	39 do.....	1	5	6			Back injured, falling coal.....	70
1912									
Jan. 11	Alfred Zinn.....	50 Wyoming.....	1	3	4			Arm broken, fell down stairs.....	63
13	Stinie Kasper.....	30 Spring Valley..	1	1				Back injured, falling roof.....	49
15	Ed. Grossman.....	29 do.....	1	1				Arm broken, coal fell down shaft.....	43
16	Moranda Louie.....	28 Dalzell.....	1	1	1			Back injured, falling coal.....	48
16	Andrew Prossio.....	58 Seatonville.....	1	1				Hand injured, falling roof.....	39
22	Barni Spagnol.....	47 Spring Valley..	1	2	3			Shoulder injured, falling coal.....	39
26	A. Noskis.....	40 Marquette.....	1	2	3			Leg injured, pit car.....	90
Feb. 1	Herman Weingartz, Sr.....	50 Kewanee.....	1	1	2			Body injured, falling coal.....	*
5	Herman Weingartz, Jr.....	19 do.....	1	1				Ribs broken, pit car.....	35
14	Wm. Meadowcroft.....	25 Marquette.....	1	3	4			Toes broken, falling roof.....	60
16	Joe Gueriba.....	22 Spring Valley..	1	1				Body injured, falling coal.....	30
19	Peter Lauer.....	17 do.....	1	1				Back injured, pit car.....	116

Non-fatal casualties—Second District—Concluded.

Date.	Name.	Residence.	Age.	Married.	Single.	Children.	Dependents.	Character of injury and cause of accident.	Time lost—days.
1912									
Mar.	5 A. Edgerton.....	19 Marquette.....	1					Hand injured, falling roof.....	35
	6 Chas. Clabanis.....	23 Spring Valley.....	1					Foot injured, pit car.....	55
	7 James Clinton.....	26 ..do.....	1					Back injured, pit car.....	59
	9 Vincent Roberto.....	26 Cherry.....	1					Leg broken, falling roof.....	*
	11 B. Musalllis.....	22 Spring Valley.....	1					Back injured, pit car.....	50
	11 John Orlanda.....	42 Dalzell.....	1	2	3			Foot injured, struck by pick.....	50
	12 John Drazon.....	33 Spring Valley.....	1	5	6			Leg broken, falling coal.....	*
	12 Wm. Houzze.....	32 Seatonville.....	1	3	4			Shoulder injured, pit car.....	*
	14 J. F. Carso.....	30 Marquette.....	1					Collar bone broken, falling coal.....	60
	14 A. Patrick.....	50 ..do.....	1	1	2			Leg broken, falling coal.....	*
	18 Anton Seoraski.....	45 Spring Valley.....	1	2	3			Head injured, falling roof.....	43
	20 F. Pettino.....	47 ..do.....	1	4	5			Shoulder injured, falling coal.....	*
	23 Joe. Oxtites.....	36 ..do.....	1	1	2			Back injured, falling roof.....	69
	27 Albert Olson.....	20 Seatonville.....	1					Foot injured, pit car.....	33
	28 John Burgone.....	27 ..do.....	1					Leg injured, falling coal.....	34
May	1 Joe Barnabie.....	46 Dalzell.....	1	5	5			Back injured, pit car.....	*
	7 Wm. Myers.....	50 Hollowayville.....	1	2	3			Leg injured, falling roof.....	*
	11 Luigi Romanelli.....	48 Dalzell.....	1					Arm broken, falling roof.....	*
	13 Joe Fenoglio.....	35 Seatonville.....	1					Leg injured, pit car.....	*
	21 Fortune Salmont.....	44 Seatonville.....	1					Ankle injured, falling roof.....	*
	24 Anton Yosis.....	38 Spring Valley.....	1					Ankle injured, falling coal.....	*
	25 James Vitton.....	19 Seatonville.....	1					Leg broken, falling coal.....	*
	28 Joe Ferrari.....	36 Ladd.....	1	4	5			Foot injured, falling coal.....	33
June	7 John Galletti.....	52 Spring Valley.....	1					Arm broken, fell down.....	*
	14 Wm. Yondbulis.....	31 Cherry.....	1	4	5			Arm injured, kicked by mule.....	*
	15 Andrew Runnan.....	26 ..do.....	1					Back injured, falling roof.....	*
	15 Wm. Ruskie.....	38 Seatonville.....	1					Foot injured, falling roof.....	30
	17 Caesar Baruffi.....	54 Dalzell.....	1	6	7			Arm injured, falling coal.....	*
	20 Frank Stanashoski.....	45 Spring Valley.....	1	4	5			Ribs broken, pit car.....	*
	24 E. Blanch.....	50 Seatonville.....	1	6	6			Jaw broken, falling coal.....	*
	27 Chas. McCook.....	27 Spring Valley.....	1	2	3			Nose broken, kicked by mule.....	*
	28 Jas. Perona.....	37 ..do.....	1					Foot injured, falling coal.....	*
	Total.....			51	37	141	188		

* Not returned to work.

Total number of men injured.....	88
Not returned to work July 1, 1912.....	28

Number returned to work.....	60
------------------------------	----

Total time lost by men returned to work—days.....	3,733
Average days lost.....	62.22

Recapitulation of non-fatal casualties—Second District—1912.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Cable.....	1	Cager.....	1	Coal fell down shaft..	1	Alden.....	1
Cherry.....	7	Drivers.....	16	Falling coal.....	31	Andrews.....	1
Coal Valley.....	1	Laborers.....	8	Falling roof.....	30	Coal Valley.....	3
Dalzell.....	7	Miners.....	59	Fell down.....	1	Ill. 3d Vein.....	1
Hollowayville.....	1	Motorman.....	1	Fell down stairs.....	1	Kewanee.....	2
Kewanee.....	2	Timbermen.....	2	Fell off ladder.....	1	Marquette 3d Vein.....	11
Ladd.....	1	Weighman.....	1	Kicked by mule.....	2	Pryce & Seivers.....	1
Marquette.....	8			Pit cars.....	18	St. Paul.....	7
Seatonville.....	13			Railway cars.....	1	Spring Valley.....	61
Sherrard.....	2			Struck by pick.....	1		
Spring Valley.....	43			Tail chain.....	1		
Viola.....	1						
Wyoming.....	1						
Total.....	88		88		88		88

Recapitulation of non-fatal casualties, nature of injuries, conjugal relations and time lost—Second District—1912.

Nature of injuries.	Number.	Married.	Single.	Children.	Dependents.	Time lost—days.		Percent- age of injuries.
						Total.	Average.	
Ankles injured.....	3	—	3	—	—	40	40.00	3.41
Arms broken.....	4	1	3	3	4	106	53.00	4.55
Arms injured.....	3	3	—	14	17	33	33.00	3.41
Backs injured.....	13	8	5	18	26	670	67.00	14.77
Bodies injured.....	5	3	2	6	9	316	79.00	5.68
Collar bone broken.....	4	2	2	4	6	188	62.67	4.55
Feet injured.....	10	4	6	16	20	371	41.22	11.36
Fingers broken.....	1	1	—	1	—	—	—	1.14
Fingers injured.....	4	2	2	10	12	243	60.75	4.55
Hands injured.....	5	1	4	—	1	227	45.40	5.68
Heads injured.....	3	3	—	4	7	92	46.00	3.41
Jaw broken.....	1	1	—	6	6	—	—	1.14
Jaw and ribs broken.....	1	—	1	—	—	136	136.00	1.14
Legs broken.....	13	9	4	27	36	700	116.67	14.77
Legs injured.....	10	6	4	12	17	428	53.50	11.36
Nose broken.....	1	1	—	2	3	—	—	1.14
Ribs broken.....	3	2	1	6	8	84	42.00	3.41
Shoulders injured.....	3	3	—	9	12	39	39.00	3.41
Toes broken.....	1	1	—	3	4	60	60.00	1.14
Total.....	88	51	37	141	188	3,733	62.22	100 00

Bureau County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	Spring Valley Coal Co., No. 5.....	Dalzell.....	2,664	262,815	51,309	316,788
2	Spring Valley Coal Co., No. 3.....	Spring Valley..	340	214,220	44,461	259,021
3	Spring Valley Coal Co., No. 1.....	do.....	31,928	183,813	37,112	252,853
4	Illinois 3d Vein Coal Co., No. 1.....	Ladd.....	22,945	137,368	78,236	238,549
5	St. Paul Coal Co., No. 2.....	Cherry.....		191,338	37,031	228,369
6	Spring Valley Coal Co., No. 4.....	Seatonville.....	5,061	185,828	29,148	220,037
7	Marquette 3d Vein Coal Co., No. 1.....	Marquette.....	7,423	89,086	51,966	148,475
Total.....			70,361	1,264,468	329,263	1,664,092
LOCAL MINES.						
1	Donahue & Jones.....	Sheffield.....		8,445		8,445
2	L. F. Brandt.....	Mineral.....		4,800		4,800
3	James Neave.....	Sheffield.....		3,146	150	3,296
4	Rockyrun Coal Co.....	Tiskilwa.....		180	30	210
5	Wm. Masters & Bro.....	Sheffield.....		160		160
6	George Prunt.....	Tiskilwa.....		100		100
Total.....				16,831	180	17,011
Total—13 mines.....			70,361	1,281,299	329,443	1,681,103

Mines reported for 1911, 14.

New mines, 1.

Abandoned mines, 2.

Mines in 1912, 13.

Second District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Accidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
303,571	13,217	.....	223	518	167	685	316,788	.....	.....	18	.....	.....	98	1
248,908	10,113	.....	196	486	168	654	259,021	.....	1	14	.....	.....	91	2
212,837	40,016	.....	206	543	163	706	252,853	.....	.....	15	.....	.....	91	3
191,861	46,688	.....	235	395	175	570	238,549	.....	.....	1	.....	.....	76	4
217,501	10,868	.....	277	302	100	402	228,369	.....	.....	7	.....	.....	22	5
205,383	14,654	.....	232	374	150	524	220,037	.....	.....	15	.....	.....	71	6
135,353	13,122	.....	210	260	100	360	148,475	.....	1	11	.....	.....	36	7
1,515,414	148,678	.....	226	2,878	1,023	3,901	1,664,092	.....	2	81	.....	.....	485	
.....	
.....	8,445	300	290	20	4	24	8,445	.....	.....	.....	.....	.....	.....	1
.....	4,800	.....	240	6	2	8	4,800	.....	.....	.....	.....	.....	.....	2
.....	3,296	120	150	5	1	6	3,296	.....	.....	.....	.....	.....	.....	3
.....	210	14	80	2	1	3	210	.....	.....	.....	.....	.....	.....	4
.....	160	.....	45	2	.....	2	160	.....	.....	.....	.....	.....	.....	5
.....	100	.....	40	1	.....	1	100	.....	.....	.....	.....	.....	.....	6
.....	17,011	434	141	36	8	44	17,011	.....	.....	.....	.....	.....	.....
1,515,414	165,689	434	186	2,914	1,031	4,945	1,681,103	.....	2	81	.....	.....	485	

Henry County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	Kewanee Coal Co., No. 2.....	Kewanee.....	21,532	13,297	8,166	42,995
LOCAL MINES.						
1	Kewanee Coö. Coal Co.....	Kewanee.....		12,400	700	13,100
2	Fred Henry.....	do.....		7,000	300	7,300
3	Matt Atkinson.....	do.....		4,190	970	5,160
4	Grice Coal Co.....	do.....		3,858	940	4,798
5	E. S. Barlow.....	do.....		1,838	240	2,078
6	Todd Bros.....	do.....		1,400		1,400
7	Herman Hintz & Bro.....	Geneseo.....		1,110	50	1,160
8	Wilson & Swan.....	Kewanee.....		1,100		1,100
9	Chilton & Boggs.....	do.....		960	60	1,020
10	Jas. Kemerling & Son.....	do.....		800	200	1,000
11	Bates Bros.....	do.....		954		954
12	Frank E. Lane.....	Cambridge.....		690	208	898
13	Joseph Engle & Son.....	Galva.....		880		880
14	Leo Maloen.....	Kewanee.....		600	100	700
15	D. O. Loy.....	Atkinson.....		520	40	560
16	Donahou Coal Co.....	Moline.....	540			540
17	Rudolph Marke.....	Briar Bluff.....		513	25	538
18	J. F. Kincade.....	do.....		532		532
19	Joseph Carter.....	Kewanee.....		270		270
20	Kershaw & Kay.....	Briar Bluff.....		89		89
21	G. Wells.....	do.....		70		70
22	Fred Kershaw.....	do.....		29		29
Total.....			540	39,803	3,833	44,176
Total—23 mines.....			22,072	53,100	11,999	87,171

Mines reported for 1911, 22.

New mines, 4.

Abandoned mines, 3.

Mines in 1912, 23.

Second District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Accidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
38,422	4,573	1,900	179	65	30	95	42,995	.....	1	1	Solid...	.....	11	1
.....	13,100	.....	270	24	2	26	13,100	.....	.....	.....	.....	.....	.....	1
.....	7,300	.....	200	11	2	13	7,300	.....	.....	.....	.....	.....	.....	3
.....	5,160	.....	250	10	2	12	5,160	.....	.....	.....	.....	.....	.....	3
.....	4,798	.....	200	10	1	11	4,798	.....	.....	.....	.....	.....	.....	4
.....	2,078	.....	170	8	1	9	2,078	.....	.....	.....	.....	.....	.....	5
.....	1,400	.....	175	4	1	5	1,400	.....	.....	.....	.....	.....	.....	6
.....	1,160	65	150	5	1	6	1,160	.....	.....	.....	.....	.....	.....	7
.....	1,100	.....	180	3	1	4	1,100	.....	.....	.....	.....	.....	.....	8
.....	1,020	.....	120	4	1	5	1,020	.....	.....	.....	.....	.....	.....	9
.....	1,000	.....	200	4	1	5	1,000	.....	.....	.....	.....	.....	.....	10
.....	954	.....	100	5	1	6	954	.....	.....	.....	.....	.....	.....	11
.....	898	35	100	5	2	7	898	.....	.....	.....	.....	.....	.....	12
.....	880	.....	200	3	1	4	880	.....	.....	.....	.....	.....	.....	13
.....	700	.....	100	4	1	5	700	.....	.....	.....	.....	.....	.....	14
.....	560	.....	100	3	1	4	560	.....	.....	.....	.....	.....	.....	15
.....	540	20	67	3	2	5	540	.....	.....	.....	.....	.....	.....	16
.....	538	4	100	2	.....	2	538	.....	.....	.....	.....	.....	.....	17
.....	532	26	110	2	.....	2	532	.....	.....	.....	.....	.....	.....	18
.....	270	.....	100	2	.....	2	270	.....	.....	.....	.....	.....	.....	19
.....	89	3	40	2	.....	2	89	.....	.....	.....	.....	.....	.....	20
.....	70	2	40	1	.....	1	70	.....	.....	.....	.....	.....	.....	21
.....	29	.....	15	1	.....	1	29	.....	.....	.....	.....	.....	.....	22
.....	44,176	155	136	116	21	137	44,176	.....	.....	.....	.....	.....	.....	.....
38,422	48,749	2,055	138	181	51	232	87,171	.....	1	1	.....	.....	11	.....

Knox County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
LOCAL MINES.						
1	T. H. Milan.....	Galesburg.....		4,806	640	5,446
2	Pendergast Bros.....	do.....		5,000	200	5,200
3	Rodell & Mitchell.....	Wataga.....		4,153	1,000	5,153
4	F. H. Morce.....	Middle Grove.....		1,800		1,800
5	Jesse Millier.....	Rapatee.....		1,684		1,684
6	Eric Strom.....	Victoria.....		1,600		1,600
7	Galva Mining Co.....	Wataga.....		1,346	240	1,586
8	Aaron Teel.....	Oneida.....		1,550		1,550
9	Chas. Gladfelter.....	Victoria.....		1,473		1,473
10	S. D. McGovern.....	Oneida.....		1,420		1,420
11	Newton Anderson.....	Middle Grove.....		1,400		1,400
12	N. C. Anderson.....	Knoxville.....		960		960
13	James Wheatcroft.....	Victoria.....		940		940
14	Albert Wahlberg.....	Knoxville.....		800		800
15	D. I. Foster.....	Rapatee.....		500		500
16	Eli Anderson.....	Victoria.....		480		480
17	John E. Walsh.....	Williamsfield.....		480		480
18	Chaffin Henderson.....	Victoria.....		460		460
19	John Paul.....	Rapatee.....		400		400
20	William Charnock.....	Dahinda.....		350		350
21	Claus Bengston & Bros.....	Wataga.....		300		300
22	Charles Morgan.....	Oneida.....		200		200
23	Frank Westerfield.....	Galesburg.....		175		175
24	Louis Nodine.....	Wataga.....		110		110
25	Thos. Godsell.....	Dahinda.....		50		50
Total—25 mines.....				32,437	2,080	34,517

Mines reported for 1911, 23.

New mines, 5.

Abandoned mines, 3.

Mines in 1912, 25.

Second District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Accidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
.....	5,246	400	200	10	3	13	5,446	.....	1	.....	.....	.....	.....	1
.....	5,200	400	200	12	2	14	5,200	.....	.....	.....	.....	.....	.....	2
.....	5,153	.....	280	6	2	8	5,153	.....	.....	.....	.....	.....	.....	3
.....	1,800	90	200	4	.....	4	1,800	.....	.....	.....	.....	.....	.....	4
.....	1,684	200	200	3	.....	3	1,684	.....	.....	.....	.....	.....	.....	5
.....	1,600	.....	200	4	.....	4	1,600	.....	.....	.....	.....	.....	.....	6
.....	1,586	.....	120	10	2	12	1,586	.....	.....	.....	.....	.....	.....	7
.....	1,550	.....	200	4	.....	4	1,550	.....	.....	.....	.....	.....	.....	8
.....	1,473	.....	125	6	1	7	1,473	.....	.....	.....	.....	.....	.....	9
.....	1,420	.....	200	4	1	5	1,420	.....	.....	.....	.....	.....	.....	10
.....	1,400	85	250	4	.....	4	1,400	.....	.....	.....	.....	.....	.....	11
.....	960	.....	150	4	.....	4	960	.....	.....	.....	.....	.....	.....	12
.....	940	.....	128	2	.....	2	940	.....	.....	.....	.....	.....	.....	13
.....	800	.....	150	3	1	4	800	.....	.....	.....	.....	.....	.....	14
.....	500	48	180	2	.....	2	500	.....	.....	.....	.....	.....	.....	15
.....	480	.....	120	3	.....	3	480	.....	.....	.....	.....	.....	.....	16
.....	480	12	100	3	1	4	480	.....	.....	.....	.....	.....	.....	17
.....	460	.....	140	2	.....	2	460	.....	.....	.....	.....	.....	.....	18
.....	440	20	200	2	1	3	400	.....	.....	.....	.....	.....	.....	19
.....	350	.....	115	2	.....	2	350	.....	.....	.....	.....	.....	.....	20
.....	300	.....	120	2	.....	2	300	.....	.....	.....	.....	.....	.....	21
.....	200	.....	60	2	.....	2	200	.....	.....	.....	.....	.....	.....	22
.....	175	.....	75	2	.....	2	175	.....	.....	.....	.....	.....	.....	23
.....	110	.....	60	1	.....	1	110	.....	.....	.....	.....	.....	.....	24
.....	50	.....	50	1	.....	1	50	.....	.....	.....	.....	.....	.....	25
.....	34,517	1,255	153	98	14	112	34,517	.....	1	.....	.....	.....	.....	.....

Mercer County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	Coal Valley Mining Co., No. 2.....	Sherrard.....	3,683	29,862	78,255	111,800
2	Coal Valley Mining Co., No. 3.....	Mathersville....	2,658	33,144	69,815	105,617
3	Alden Coal Co., No. 7.....	do.....	178	40,935	59,540	100,653
Total.....			6,519	103,941	207,610	318,070
LOCAL MINES.						
1	W. H. Riddell.....	Aledo.....		4,000	200	4,200
2	W. P. Williams.....	do.....		3,648		3,648
3	Docherty Bros.....	Preemption.....		3,200	300	3,500
4	R. W. Peterson.....	New Windsor.....		1,096	548	1,644
5	C. W. Essley.....	Viola.....		1,200		1,200
6	B. B. Peterson.....	Cable.....	150	800	50	1,000
7	T. C. Dodds & Son.....	Viola.....		800		800
8	A. W. Wahlberg.....	Cable.....		300	100	400
9	James Blain.....	Viola.....		200		200
Total.....			150	15,244	1,198	16,592
Total—12 mines.....			6,669	119,185	208,808	334,662

Mines reported for 1911, 15.

New mines, 2.

Abandoned mines, 5.

Mines in 1912, 12.

Second District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Accidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
97,320	14,480	5,444	189	92	83	175	111,800				3 Solid...		18	1
101,732	3,885	5,440	157	89	53	142	105,617		1		do...		15	2
100,153	500	6,000	163	104	50	154	100,653			1	do...		12	3
297,205	18,865	16,884	170	285	186	471	318,070			4			45	
.....	4,200	250	160	7	3	10	4,200							1
.....	3,648	250	132	5	1	6	3,648							2
.....	3,500	275	152	6	2	8	3,500							3
.....	1,644	81	150	5	2	7	1,644							4
.....	1,200	60	100	5	1	6	1,200							5
.....	1,000	84	120	3	1	4	1,000							6
.....	800	40	150	3		3	800							7
.....	400	18	120	2	1	3	400							8
.....	200	12	100	2	1	3	200							9
.....	16,592	1,070	132	38	12	50	16,592							
299,205	35,457	17,954	141	323	198	521	334,662		1	4			45	

Rock Island County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	Central Ill. Fuel Co., No. 1.....	Coal Valley.....	1,600	8,040	3 400	13,040
LOCAL MINES.						
1	J. J. Pryce & Son.....	Coal Valley.....		16,177	5,392	21,569
2	Pryce & Severs Coal Co.....	do.....		11,500	5,398	16,898
3	Moline Coal Co.....	Moline.....	6,020	150	1,200	7,370
4	Stohr & Schadt.....	Carbon Cliff.....		2,595	865	3,460
5	South Rock Island Coal Co.....	Rock Island.....	38	1,855	927	2,820
6	Frederick & Gramenz.....	Coal Valley.....		1,670	710	2,380
7	Jamieson & Irwin.....	Moline.....		1,140	320	1,460
8	Chas. Rosemon.....	Carbon Cliff.....		1,200	200	1,400
9	Stone Bros.....	Moline.....		656	40	696
10	Von Ach Bros.....	Hampton.....		400		400
11	Coöperative Coal Co.....	do.....	203			203
Total.....			6,261	37,343	15,052	58,656
Total—12 mines.....			7,861	45,383	18,452	71,696

Mines reported for 1911, 13.

New mines, 1.

Abandoned mines, 2.

Mines in 1912, 12.

Second District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Accidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
11, 135	1, 905	224	233	15	14	29	3, 540	9, 500	.....	.....	Both....	.....	4	1
.....	21, 569	450	180	24	7	31	21, 569	.....	.....	.....	.....	.....	.....	1
.....	16, 898	905	125	25	11	36	16, 898	.....	.....	1	.....	.....	.....	2
.....	7, 370	362	170	9	2	11	7, 370	.....	.....	.....	.....	.....	.....	3
.....	3, 460	300	205	8	2	10	3, 460	.....	.....	.....	.....	.....	.....	4
.....	2, 820	160	140	7	2	9	2, 820	.....	.....	.....	.....	.....	.....	5
.....	2, 380	80	180	4	1	5	2, 380	.....	.....	.....	.....	.....	.....	6
.....	1, 460	110	240	5	1	6	1, 460	.....	.....	.....	.....	.....	.....	7
.....	1, 400	135	220	4	1	5	1, 400	.....	.....	.....	.....	.....	.....	8
.....	696	25	108	2	.....	2	696	.....	.....	.....	.....	.....	.....	9
.....	400	.....	120	2	1	3	400	.....	.....	.....	.....	.....	.....	10
.....	203	6	20	4	1	5	203	.....	.....	.....	.....	.....	.....	11
.....	58, 656	2, 533	155	94	29	123	58, 656	.....	.....	1	.....	.....	.....	.....
11, 135	60, 561	2, 757	162	109	43	152	62, 196	9, 500	.....	1	.....	.....	4	.....

Stark County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total
SHIPPING MINES						
1	Wyoming Mining Co.	Wyoming.....	3,331	6,956	3,039	13,326
LOCAL MINES.						
1	W. B. Ballentine.....	Wyoming.....		4,800	800	5,600
2	Andrews Coal Co.....	do.....		4,700	300	5,000
3	Alice J. Catton.....	LaFayette.....		2,516	200	2,716
4	James Scott.....	Wyoming.....		2,160	40	2,200
5	Jesse Saville.....	Toulon.....		2,004		2,004
6	Wm. Dalrymple.....	Wyoming.....		1,200	200	1,400
7	Endreas Bros.....	LaFayette.....		450	50	500
Total.....				17,830	1,590	19,420
Total—8 mines.....			3,331	24,786	4,629	32,746

Mines reported for 1911, 10.

New mines, 1.

Abandoned mines, 3.

Mines in 1912, 8.

Second District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Accidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
10,056	3,270	656	219	27	6	33	13,326				Solid...	1	1	1
.....	5,600	260	225	9	2	11	5,600							1
.....	5,000	195	215	8	2	10	5,000		1	1				2
.....	2,716	77	275	6	1	7	2,716							3
.....	2,200	120	180	6	1	7	2,200							4
.....	2,004	25	200	4	1	5	2,004							5
.....	1,400	10	175	4	2	6	1,400							6
.....	500	.....	100	2	1	3	500							7
.....	19,420	687	196	39	10	49	19,420		1	1				
10,056	22,690	1,343	199	66	16	82	32,746		1	1		1	1	

Warren County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
LOCAL MINES.						
1	Simcox Bros.....	Alexis.....		2,602	480	3,082
2	H. J. Rohr.....	do.....		1,920	200	2,120
3	F. R. Kennedy.....	Monmouth.....		960		960
4	Willis Clayton.....	Avon.....		768		768
5	Gus Von Ach.....	Roseville.....		500	8	508
6	E. J. Sprinkle.....	Avon.....		360	8	368
7	Thos. Caldwell.....	do.....		336		336
8	J. G. Lee.....	Youngstown.....		106		106
9	H. Chatterton.....	Monmouth.....		100		100
10	Lee & Miller.....	Swan Creek.....		90		90
11	W. Cook.....	Alexis.....		40		40
12	Manuel & Beckner.....	Roseville.....		20		20
Total—12 mines.....				7,802	696	8,498

Mines reported for 1911, 11.

New mines, 3.

Abandoned mines, 2.

Mines in 1912, 12.

Second District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Ac-cidents.		Blasting coal—from solid or undercut or both.	Number of animals under-ground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
.....	3,082	300	200	6	1	7	3,082	.....	.....	.....	.....	.....	.....	1
.....	2,120	250	160	5	1	6	2,120	.....	.....	.....	.....	.....	.....	2
.....	960	.....	224	6	1	7	960	.....	.....	.....	.....	.....	.....	3
.....	768	.....	160	5	.....	5	768	.....	.....	.....	.....	.....	.....	4
.....	508	.....	190	2	.....	2	508	.....	.....	.....	.....	.....	.....	5
.....	368	.....	95	3	.....	3	368	.....	.....	.....	.....	.....	.....	6
.....	336	.....	90	3	.....	3	336	.....	.....	.....	.....	.....	.....	7
.....	106	.....	50	2	.....	2	106	.....	.....	.....	.....	.....	.....	8
.....	100	.....	55	2	.....	2	100	.....	.....	.....	.....	.....	.....	9
.....	90	.....	30	3	.....	3	90	.....	.....	.....	.....	.....	.....	10
.....	40	.....	25	1	.....	1	40	.....	.....	.....	.....	.....	.....	11
.....	20	.....	10	2	.....	2	20	.....	.....	.....	.....	.....	.....	12
.....	8,498	550	107	40	4	44	8,498	.....	.....	.....	.....	.....	.....	.....

Shipping mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons.						Total.	Disposition of out-put—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
Bureau.....	7	70,361	1,264,468	64,830	.....	227,395	37,038	1,664,092	1,515,414	148,678
Henry.....	1	21,532	13,297	.....	.....	8,166	.....	42,995	38,422	4,573
Mercer.....	3	6,519	103,941	109,448	9,086	80,026	9,050	318,070	299,205	18,865
Rock Island...	1	1,600	8,040	.....	.....	.....	3,400	13,040	11,135	1,905
Stark.....	1	3,331	6,956	.....	540	2,499	.....	13,326	10,056	3,270
Total.....	13	103,343	1,396,702	174,278	9,626	318,086	49,488	2,051,523	1,874,242	177,291

Local mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons.						Total.	Disposition of out-put—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
Bureau.....	6	.....	16,831	.....	.....	180	.....	17,011	.....	17,011
Henry.....	22	540	39,803	.....	.....	3,833	.....	44,176	.....	44,176
Knox.....	25	.....	32,437	.....	.....	.....	2,080	34,517	.....	34,517
Mercer.....	9	150	15,244	.....	.....	.....	1,198	16,592	.....	16,592
Rock Island...	11	6,261	37,343	.....	.....	10,790	4,262	58,656	.....	58,656
Stark.....	7	.....	17,830	.....	1,590	.....	.....	19,420	.....	19,420
Warren.....	12	.....	7,802	.....	696	.....	.....	8,498	.....	8,498
Total.....	92	6,951	167,290	.....	2,286	14,803	7,540	198,870	.....	198,870
The District...	105	110,294	1,563,992	174,278	11,912	332,889	57,028	2,250,393	1,874,232	376,161

Whole number of mines reported for 1911, 108.

Number of new mines opened during the year, 17.

Number of mines abandoned during the year, 20.

Whole number of mines reported for 1912, 105.

counties—Second District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees.					Tons mined.		Blasting coal.		
		Underground.			All above ground.	Total.	By hand.	By machine.	From solid—tons.	Undercut—tons.	Both methods—tons.
		Miners.	Others.	Boys.							
.....	226	2,878	661	111	251	3,901	1,664,092	.....	1,664,092	.....	.....
1,900	179	65	16	6	8	95	42,695	.....	42,995	.....	.....
16,884	170	285	124	4	58	471	318,070	.....	318,070	.....	.....
224	233	15	9	.....	5	29	3,540	9,500	.....	.....	13,040
656	219	27	3	.....	3	33	13,326	.....	13,326	.....	.....
19,664	109	3,270	813	121	325	4,529	2,042,023	9,500	2,038,483	.....	13,040

counties—Second District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees.					Tons mined.		Blasting coal.		
		Underground.			All above ground.	Total.	By hand.	By machine.	From solid—tons.	Undercut—tons.	Both methods—tons.
		Miners.	Others.	Boys.							
434	141	36	.....	.....	8	44	17,011	.....	.....	.....	.....
155	136	116	.....	.....	21	137	44,176	.....	.....	.....	.....
1,255	153	98	1	.....	13	112	34,517	.....	.....	.....	.....
1,070	132	38	3	.....	9	50	16,592	.....	.....	.....	.....
2,533	155	94	.....	1	28	123	58,656	.....	.....	.....	.....
687	196	39	.....	.....	10	49	19,420	.....	.....	.....	.....
550	107	40	.....	.....	4	44	8,498	.....	.....	.....	.....
6,684	144	461	4	1	93	559	198,870	.....	.....	.....	.....
26,348	152	3,731	817	122	418	5,068	2,240,893	9,500	.....	.....	.....

All mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons.						Total.	Disposition of out-put—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
Bureau.....	13	70,361	1,281,299	64,830	.....	227,575	37,038	1,681,103	1,515,414	165,689
Henry.....	23	22,072	53,100	.....	.....	11,999	.....	87,171	38,422	48,749
Knox.....	25	.....	32,437	.....	.....	.....	2,080	34,517	.....	34,517
Mercer.....	12	6,669	119,185	109,448	9,086	80,026	10,248	334,662	299,205	35,457
Rock Island...	12	7,861	45,383	.....	.....	10,790	7,662	71,696	11,135	60,561
Stark.....	8	3,331	24,786	.....	2,130	2,499	.....	32,746	10,056	22,690
Warren.....	12	.....	7,802	.....	696	.....	.....	8,498	.....	8,498
Total.....	105	110,294	1,563,992	174,278	11,912	332,889	57,028	2,250,393	1,874,232	376,161

counties—Second District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees.						Tons mined.		Blasting coal.		
		Underground.			All above ground.	Total.	By hand.	By machine.	From solid—tons.	Undercut—tons.	Both methods—tons.	
		Miners.	Others.	Boys.								
434	186	2,914	661	111	259	3,945	1,681,103	.....		.....	.....	.....
2,055	138	181	16	6	29	232	87,171	.....		.....	.....	.....
1,255	153	98	1	.....	13	112	34,517	.....		.....	.....	.....
17,954	141	323	127	4	67	521	334,662	.....		.....	.....	.....
2,757	162	109	9	1	33	152	62,196	9,500		.....	.....	.....
1,343	199	66	3	.....	13	82	32,746	.....		.....	.....	.....
550	107	40	.....	.....	4	44	8,498	.....		.....	.....	.....
26,348	152	3,731	817	122	418	5,088	2,240,893	9,500		.....	.....	.....

THIRD INSPECTION DISTRICT—1912.

ANNUAL REPORT.

Counties—Marshall, Menard, Peoria, Putnam, Tazewell, Woodford.

JOHN DUNLOP, *Inspector*, Peoria.

Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield:

SIR—Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing counties of Marshall, Menard, Peoria, Putnam, Tazewell and Woodford.

SUMMARY OF THE ITEMS SHOWN IN THE REPORT.

Number of counties producing coal	6
Number of shipping mines	32
Number of local mines	69
Number of new or reopened mines	16
Number of closed or abandoned mines	15
Number of miners	3,674
Other underground, men	997
Boys underground	101
Boys above ground	7
Other above ground	485
Total number of employees	5,264
Total tons of coal produced	3,015,086
Days of active operation, all mines	172
Kegs of powder used for blasting coal	89,010
Tons of coal shipped	2,502,512
Tons supplied to locomotives	57,935
Tons sold to local trade	315,179
Tons consumed and wasted at the mines	139,460
Number of fatal accidents	7
Number of non-fatal accidents	62
Number of employees to each fatal accident	752
Number of employees to each non-fatal accident	85
Tons of coal produced to each fatal accident	430,727
Tons of coal produced to each non-fatal accident	48,647
Ratio of fatal accidents per 1,000 employees	1.33

The following table gives the total tonnage by counties for the years 1911 and 1912, with increase or decrease:

Counties.	Total output—Tons.		Increase.	Decrease.
	1911.	1912.		
Marshall	311,921	447,094	135,173	.....
Menard	258,408	220,418	.....	37,990
Peoria	964,698	1,207,723	243,025	.....
Putnam	585,135	716,531	131,396	.....
Tazewell	196,090	239,424	43,334	.....
Woodford	135,390	183,896	48,506	.....
Total	2,451,642	3,015,086	601,434	37,990
Net increase .....	.....	.....	563,444	.....

NEW AND ABANDONED MINES.

Two shipping and fourteen local mines have been reported this year as new or reopened mines, while one shipping and fourteen locals have temporarily closed or permanently abandoned.

CHANGE OF NAMES.

The following changes of ownership is noted:

Deemy & Cruickshanks, now Peoria District Colliery Co.

I. J. Slocum, now operated by Thomas Shorb.

Robinson and Torloff, now operated by Heitzman and Smith.

T. H. Lonsdale, now operated by Taylor and Appleby.

IMPROVEMENTS.

The Clark Coal & Coke Company of Peoria has placed a Booster fan in their mine. Owing to the wide discussion this subject has been given in some of our leading mining papers I herewith give results obtained from the working of this fan:

The principal fan, which is on the surface near the top of escapement shaft, is 15 feet in diameter, made by Crawford & McCrimmond of Brazil, Ind. This fan, making 83 revolutions a minute and the water gauge 1.3 inch, delivered 43,970 cubic feet of air at the bottom of the downcast shaft. This quantity was delivered in two splits.

The wheel of the Booster fan is 4 feet in diameter, having double inlet of 2 feet and driven by a 25 horsepower motor. This fan, made by the Jeffrey Mfg. Co., Columbus, Ohio, was placed at a distance of 3,500 feet from the bottom of downcast shaft on the split going south. This split was kept intact by having overcasts built over the cross entries so that the air taken into this split was again divided into two splits at the distance mentioned above.

Both fans working together, the large fan made 83 revolutions per minute, the small fan 372 revolutions per minute; or the periphery speed of the large fan was 3911.29 feet per minute, and the periphery speed of the small fan was 4674.7 feet per minute. The water gauge at fan drift of the large fan showed no change, but placed on the door near the small fan showed two inches.

The quantity measured at the bottom of the downcast was 46,496 cubic feet, or an increase of 2,526 cubic feet over that delivered by the large fan working alone. This increase was all on the split in which the small fan was working. The great advantage of the Booster fan was seen when the air current was measured near the discharge.

The quantity delivered by the large fan was 14,880 cubic feet; the quantity delivered with both fans running, and measured at the same place, was found to be 38,400 cubic feet.

The quantity going into this split measured at the bottom of the downcast shaft was 22,142 cubic feet, both fans working. This showed an increase of 16,358 cubic feet. This proved that there was a leakage of this amount from the main return, through the crosscuts, owing to the stoppings not being made air-tight. When the large fan was working alone, it was found that there was a leakage of 5,224 cubic feet. After all stoppings were gone over and leakages stopped as near as possible, the small fan still delivered a larger amount than was measured at the bottom of downcast or at the entrance of this split, so that the real benefit gained by installing the small fan was the delivering all of the air near the working places.

Brewster & Evans Coal Company has put down another escapement shaft. The sinking of an escapement shaft near the working places is the most beneficial improvement, so far as safety of employees and the increasing of the ventilation is concerned, that can be made at any mine, and it usually means the abandoning of a long air course which is expensive to keep in proper condition.

FATAL ACCIDENTS.

The number of fatal accidents has increased during the year, and, with the exception of two, are due to falling of slate or coal. I am deeply impressed that some of them are due entirely to negligence and could have been avoided. I believe that the passage of the workmen's compensation act is going to have a healthful influence in the decrease of all accidents around the coal mines. Notwithstanding that 50 per cent of the operators have rejected the compensation act, greater measures are being taken by the operators to prevent accidents since its passage. A few years ago the State Inspectors at a meeting held in Springfield recommended the passage of an act requiring that competent men be employed to examine and visit the working places at least twice a day while the miners were at work. The purpose intended was that these men would see that dangerous places were made safe and that the miners were supplied with the necessary timbers and cap pieces, so that their working places could be properly timbered and made safe. I am glad to say that this method is being adopted by some of the largest employers of labor in this district since the passage of the workmen's compensation act.

The following is a report in detail of the fatal accidents that occurred in the third inspection district for the year ended June 30, 1912:

August 10, 1911, John Saur, miner, aged 36 years, single, was killed by a fall of slate at the face of his working place in the Clark Coal & Coke Co.'s mine at Peoria. The deceased was mining coal which had been shot the previous day, and on account of a slip in the roof the shot had loosened the slate and the same had not been noticed by him. It gave way without any warning, falling, and killing him instantly.

December 20, 1911, John E. Evans, track layer, aged 47 years, married, was repairing tracks in the Illinois Valley Coal Co.'s mine No. 2, Sparland, Marshall County, when a large piece of slate fell, killing him instantly. He leaves a widow and two children.

December 21, 1911, August Ataliano, timberman, aged 40 years, single, was preparing to place timber in the St. Paul Coal Co.'s mine No. 1, Granville, Putnam County, when he was seriously injured by falling rock. He died December 24.

January 6, 1912, Mark Whitehurst, miner, aged 53 years, married, was struck on the head by a piece of flying coal and instantly killed. Deceased was employed in the South Mountain Coal Co.'s mine, Petersburg, Menard County. He leaves a widow and seven children.

January 20, 1912, C. F. Johnson, owner of the Johnson Valley Coal Co.'s mine, Irish Grove, Menard County, aged 57 years, married, was working on top as cager; he attempted to walk over cover on top of shaft at upper landing to the other side of shaft, so that he could push a car off the cage. The cover gave way, causing him to fall down the shaft. When found he was dead. The deceased leaves a widow and six children.

January 24, 1912, Joe Minescio, miner, aged 20 years, single, was killed by a fall of rock at his working place in the Wenona Coal Co.'s mine, Wenona, Marshall County.

March 20, 1912, Joseph Rinaldo, miner, aged 49 years, married, working in the Roanoke Coal Co.'s mine, Roanoke, Woodford County, was seriously injured by a fall of coal at his working place and died March 22. He leaves a widow and three children.

Respectfully submitted,

JOHN DUNLOP,

State Inspector of Mines, Third District, Peoria, Ill.

Fatal casualties—Third District—June 30, 1912.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Single.	Widow.	Children.	Dependents.	Cause of death.
1911.										
Aug. 10	John Saur.	36	Miner.	Peoria.	1	1				Falling slate.
Dec. 20	John E. Evans.	47	Trackman.	Sparland.	1		1	2	3	do.
24	Aug. Ataliano.	40	Laborer.	Granville.	1					do.
1912.										
Jan. 6	Mark Whitehurst.	53	Miner.	Petersburg.	1		1	6	7	Flying coal.
20	C. F. Johnson.	57	Operator.	Irish Grove.	1		1	6	2	Fell down shaft.
24	Joe Minescio.	20	Miner.	Wenona.		1				Falling rock.
Mar. 20	Jos. Rinaldo.	49	do.	Roanoke.	1		1	3	4	Falling coal.
	Total				4	3	4	17	16	

Recapitulation of fatal casualties—Third District—1912.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Granville.	1	Laborer.	1	Falling coal.	1	Clarke.	1
Irish Grove.	1	Miner.	4	Falling rock.	1	Illinois Valley.	1
Peoria.	1	Operator.	1	Falling slate.	3	Johnson Valley.	1
Petersburg.	1	Trackman.	1	Fell down shaft.	1	Roanoke.	1
Roanoke.	1			Flying coal.	1	St. Paul.	1
Sparland.	1					South Mountain.	1
Wenona.	1					Wenona.	1
Total.	7		7		7		7

Non-fatal casualties—Third District—June 30, 1912.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents.	Character of injury and cause of accident.	Time lost—days.
1911.									
July 15	Dom Bongere.	36	Granville.	1				Ankle injured, falling rock.	46
20	Mike Yeukus.	27	do.	1		3	4	Foot injured, pit car.	65
22	Barney Vario.	26	Taft.	1		2	3	Foot injured, falling rock.	30
25	John Bartlemuccio.	35	Toluca.	1		2	3	Leg broken, falling coal.	188
28	Carlo Mora.	25	do.	1		1		Ankle broken, falling coal.	158
Aug. 4	Jas. Sills.	45	Pottstown.	1		3	4	Ribs broken, falling rock.	36
8	Wm. Drubkewicz.	60	Wenona.	1		2	3	Head injured, falling coal.	30
12	Wm. Pennick.	55	Taft.	1		2	3	Finger injured, falling rock.	61
15	Joe Zoera.	50	Granville.	1		3	4	Arm injured, cage.	60
18	Mat Mauce.	38	do.	1		4	5	Collar bone broken, falling coal.	54
18	Bart Sourlaine.	24	Roanoke.	1			1	Hand injured, pit car.	32
24	Ernest Hunger.	46	Granville.	1				Hand injured, railroad car.	80
24	Dom Trogllo.	52	Taft.	1		6	7	Hand broken, pit car.	39
30	Louis Robetini.	48	Granville.	1				Head injured, falling coal.	34
31	Frank Drolle.	40	do.	1		1		Thumb injured, falling coal.	45
Sept. 16	C. Robetinio.	40	do.	1			1	Eye injured, flying coal.	*
18	Anton Rondelli.	45	Taft.	1		5	6	Leg injured, pick.	36
19	Sam Dremi.	36	Sparland.	1		4	5	Back injured, falling slate.	70
Oct. 2	Joe Matino.	34	Granville.	1				Leg injured, falling coal.	40
4	James Piano.	45	Taft.	1				Foot injured, falling rock.	39
7	Wm. Pribble.	32	Sparland.	1		2	3	Face and neck burned, premature blast.	30
16	Harry Hawthorne.	33	Taft.	1			1	Foot injured, falling coal.	60
30	Mat Yartz.	46	Wenona.	1		2	3	Leg injured, falling coal.	42

Non-fatal casualties—Third District—Concluded.

Date.	Name.	Age.	Residence.	Married. Single.	Children.	Dependents.	Character of injury and cause of accident.	Time lost—days.
1911.								
Nov. 31	Peter Lanceau.....	51	Roanoke.....	1	.....	1	Foot injured, pit car.....	35
6	John Davis.....	35	Sparland.....	1	.....	1	Hand injured, pit car.....	30
15	James Hand.....	28	Granville.....	1	1	2	Foot injured, pit car.....	30
21	Lau Ghidua.....	27	Pekin.....	1	1	.....	Leg broken, machine.....	90
27	Joe Bachetta.....	26	Granville.....	1	.....	1	Toe injured, falling rock.....	32
Dec. 11	Frank Hutchnea.....	20	Minonk.....	1	1	.....	Body injured, pit car.....	30
13	Joe Lendotte.....	39	Taft.....	1	5	6	Thumb injured, falling rock.....	37
15	Alx. Stevenson.....	48	Granville.....	1	3	4	Collar bone and ribs broken, falling rock.....	48
15	Joseph Monjie.....	32	Roanoke.....	1	1	2	Leg broken, pit car.....	42
1912.								
Jan. 3	Wm. Small.....	23	do.....	1	.....	.....	Rib broken, pit car.....	34
6	Wm. Kenny.....	44	Sparland.....	1	1	2	Body injured, falling coal.....	60
17	Luc Camatti.....	29	Taft.....	1	1	.....	Finger injured, sprag.....	90
17	Bart Zanaglia.....	33	do.....	1	4	5	Back injured, falling rock.....	120
17	Jim Brack.....	28	do.....	1	.....	1	do.....	*
22	John Faretto.....	22	Granville.....	1	.....	.....	do.....	*
24	John Canalli.....	20	Wenona.....	1	.....	.....	Leg broken, falling rock.....	*
Feb. 1	Alx. Pala.....	30	Toluca.....	1	.....	.....	Back injured, falling coal.....	48
6	John Roseuske.....	16	Minonk.....	1	.....	.....	Leg broken, falling coal.....	90
14	Albert Zalaker.....	28	Taft.....	1	.....	.....	Toe injured, falling coal.....	30
16	Walter, Miliezewski.....	55	Minonk.....	1	6	4	Ankles injured, falling coal.....	30
17	Frank Mazick.....	42	Granville.....	1	.....	.....	Body injured, falling rock.....	35
28	Mike Panko.....	45	do.....	1	4	5	Leg broken, falling coal.....	*
Mar. 1	Chirillo Ricci.....	26	do.....	1	1	.....	Foot injured, pit car.....	72
1	John Brown.....	52	Peoria.....	1	2	3	Back injured, falling rock.....	*
16	Henry Cramer.....	32	Pottstown.....	1	1	2	Fingers injured, coal falling down shaft.....	30
26	Howard Harnell.....	24	Peoria.....	1	.....	.....	Head injured, fell off car.....	30
May 2	Paul Pitlick.....	52	Toluca.....	1	4	5	Leg injured, falling rock.....	49
15	Wilford Idle.....	21	Peoria.....	1	.....	.....	Face and arms burned, explosion of powder.....	*
15	Joe Bartoloni.....	49	Taft.....	1	3	4	Back injured, falling coal.....	36
24	John Curran.....	42	do.....	1	.....	.....	Foot injured, pit car.....	*
25	Louie Blodick.....	28	do.....	1	.....	.....	Hand injured, falling rock.....	43
28	L. Drooth.....	23	Pekin.....	1	.....	1	Foot injured, pit car.....	*
June 1	Anton Brassea.....	26	Toluca.....	1	.....	.....	Leg injured, pit car.....	30
4	Guseppi Cavatorti.....	34	Taft.....	1	4	5	Nose broken, falling coal.....	*
7	Louis Vigneri.....	30	Toluca.....	1	3	4	Collar bone broken, falling rock.....	*
7	Carmi Di Tomasso.....	24	do.....	1	.....	1	Wrist broken, falling coal.....	*
21	Merrino Messini.....	25	Pekin.....	1	.....	.....	Back and legs injured, falling rock.....	*
25	Charles Humphrey.....	22	Sparland.....	1	.....	.....	Back broken, falling rock.....	*
27	M. Menini.....	25	Pekin.....	1	.....	.....	Body injured, falling slate.....	*
	Total.....			37	25	82	116	

* Not returned to work.

Total number injured..... 62
 Not returned to work, July 1, 1912..... 15

Number returned..... 47

Time lost by men returned to work—days..... 2,476
 Average days lost..... 52.68

Recapitulation of non-fatal casualties—Third District—1912.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Granville	16	Drivers	9	Cage	1	Berry, B. F.	15
Minonk	3	Laborers	3	Coal fell down shaft ..	1	Brewster & Evans ..	2
Pekin	4	Machine runner ..	1	Falling coal	17	Clarke	2
Peoria	3	Mine examiner ..	1	Falling slate	2	Goetz, Carl	1
Pottstown	2	Miners	47	Falling rock	20	Illinois Valley	5
Roanoke	4	Trackman	1	Fell off car	1	Minonk	3
Sparland	5			Flying coal	1	Roanoke	4
Taft	15			Machine	1	St. Paul	16
Toluca	7			Pick	1	Tazewell	4
Wenona	3			Pit cars	13	Toluca	7
				Powder explosion	1	Wenona	3
				Premature blast	1		
				Railroad car	1		
				Sprag	1		
Total	62		62		62		62

Recapitulation of non-fatal casualties, nature of injuries, conjugal relations and time lost—Third District—1912.

Nature of injuries.	Number.	Married.	Single.	Children.	Dependents.	Time lost—days.		Percent- age of injuries.
						Total.	Average.	
Ankle broken	1	—	1	—	—	158	158.00	1.61
Ankles injured	2	1	1	6	4	76	38.00	3.23
Arm injured	1	1	—	3	4	60	60.00	1.61
Back broken	1	—	1	—	—	—	—	1.61
Back injured	7	5	2	13	18	274	68.50	11.29
Back and legs injured ..	1	—	1	—	—	—	—	1.61
Bodies injured	4	2	2	1	3	125	41.67	6.45
Collar bones broken	3	3	—	10	13	102	51.00	4.84
Eye injured	1	1	—	—	1	—	—	1.61
Face and arms burned ..	1	—	1	—	—	—	—	1.61
Face and neck burned ..	1	1	—	2	3	30	30.00	1.61
Feet injured	9	6	3	6	12	321	47.29	14.52
Fingers injured	5	3	2	8	11	263	52.60	8.07
Hand broken	1	1	—	6	7	39	39.00	1.61
Hands injured	4	2	2	—	2	185	46.25	6.45
Heads injured	3	1	2	2	3	94	31.33	4.84
Legs broken	6	3	3	7	10	410	102.50	9.68
Legs injured	5	3	2	11	14	197	39.40	8.07
Nose broken	1	1	—	4	5	—	—	1.61
Ribs broken	2	1	1	3	4	70	35.00	3.23
Toes injured	2	1	1	—	1	62	31.00	3.23
Wrist broken	1	1	—	—	1	—	—	1.61
Total	62	37	25	82	116	2,476	52.68	100.00

Marshall County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	Toluca Coal Co , No. 1 and 2.....	Toluca.....	279	213, 798	43, 396	257, 473
2	Wenona Coal Co., No. 1.....	Wenona.....		84, 098	37, 008	121, 106
3	Illinois Valley Coal Co., No. 1.....	Sparland.....	266	25, 475	11, 874	37, 615
4	Illinois Valley Coal Co., No. 2.....	do.....	2, 802	9, 860	3, 991	16, 653
5	Fulton County Coal Co., No. 1.....	do.....		7, 552	1, 332	8, 884
Total.....			3, 347	340, 783	97, 601	441, 731
LOCAL MINES.						
1	Wm. Baugh.....	Sparland.....	2, 000			2, 000
2	Loper Bros.....	do.....	1, 100			1, 100
3	R. H. Ingram.....	do.....	1, 000			1, 000
4	John Cartes.....	do.....	300	200		500
5	John H. Pearson.....	do.....	300			300
6	Wm. Rhey.....	do.....	200			200
7	Frisby and Davis.....	do.....	3	150		153
8	Snell and Frisby.....	do.....	110			110
Total.....			5, 013	350		5, 363
Total—13 mines.....			8, 360	341, 133	97, 601	447, 094

Mines reported for 1911, 9.

New mine, 4.

Mines for 1912, 13.

Third District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Ac-cidents.		Blasting coal—from solid or undercut or both.	Number of animals under-ground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
196,528	60,945	.....	266	448	205	653	257,473	.....	.....	7	Solid....	.....	39	1
107,096	14,010	.....	232	180	70	250	121,106	.....	1	3	do.....	.....	18	2
37,143	472	2,266	197	40	17	57	37,615	.....	.....	.....	do.....	.....	5	3
16,622	31	655	211	4	38	42	7,502	9,151	1	5	Both....	.....	3	4
2,260	6,624	.....	185	25	11	36	8,884	.....	.....	.....	Solid....	.....	3	5
359,649	82,082	2,921	218	697	341	1,038	432,580	9,151	2	15	.....	.....	68	
.....	2,000	6	150	2	.....	2	2,000	.....	.....	.....	.....	.....	.....	1
.....	1,100	25	240	2	1	3	1,100	.....	.....	.....	.....	.....	.....	2
.....	1,000	50	200	4	1	5	1,000	.....	.....	.....	.....	.....	.....	3
.....	500	25	200	6	3	9	500	.....	.....	.....	.....	.....	.....	4
.....	300	12	175	3	1	4	300	.....	.....	.....	.....	.....	.....	5
.....	200	5	120	1	1	2	200	.....	.....	.....	.....	.....	.....	6
.....	153	9	40	2	1	3	153	.....	.....	.....	.....	.....	.....	7
.....	110	2	40	1	.....	1	110	.....	.....	.....	.....	.....	.....	8
.....	5,363	134	146	21	8	29	5,363	.....	.....	.....	.....	.....	.....
359,649	87,445	3,055	174	718	249	1,067	437,943	9,151	2	15	.....	.....	68	

Menard County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	Wabash Coal Co., No. 2.....	Athens.....	25,101	21,996	21,454	68,551
2	Tallula Coal Co., Tallula.....	Tallula.....	2,275	21,809	23,628	47,712
3	So. Mountain Coal Co., No. 1.....	Petersburg.....	20,850	10,100	8,000	38,950
4	Greenview Mining Co., G. V.....	Greenview.....	2,975	14,566	16,481	34,022
Total.....			51,201	68,471	69,563	189,235
LOCAL MINES.						
1	Loyd Mining Co.....	Petersburg.....	10,398		86	10,484
2	Johnson Valley Coal Co.....	Fancy Prairie.....	5,734		776	6,510
3	Ed. Hughes.....	Sweetwater.....	300	3,000	1,000	4,300
4	John Møllergran.....	Petersburg.....	500	1,865	1,010	3,375
5	I. N. Biggs.....	Tallula.....		1,578	789	2,367
6	Peter Becker.....	do.....		2,147	175	2,322
7	Adolph Andree.....	Petersburg.....	1,600			1,600
8	John P. Grosball.....	Tice.....		150	75	225
Total.....			18,532	8,740	3,911	31,183
Total—12 mines.....			69,733	77,211	73,474	220,418

Mines reported for 1911, 13.

Abandoned mines, 1.

Mines in 1912, 12.

Third District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Ac-cidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
59,026	9,525	3,401	140	85	45	130	68,551	.....	.....	.....	Solid...	.....	.....	17
41,566	6,116	2,105	200	47	21	68	47,712	.....	.....	.....	do.....	.....	.....	6
24,841	14,109	1,907	164	58	28	86	38,950	.....	1	.....	do.....	.....	.....	6
27,745	6,277	1,384	252	32	13	45	34,022	.....	.....	.....	do.....	.....	.....	4
153,178	36,057	8,797	189	222	107	329	189,235	.....	1	.....	.....	.....	.....	33
.....
.....	10,484	70	107	4	2	6	10,484	.....	.....	.....	.....	.....	.....	1
.....	6,510	275	185	6	2	8	6,510	.....	1	.....	.....	.....	.....	2
.....	4,300	150	225	5	2	7	4,300	.....	.....	.....	.....	.....	.....	3
.....	3,375	125	210	5	2	7	3,375	.....	.....	.....	.....	.....	.....	4
.....	2,367	118	200	5	.....	5	2,367	.....	.....	.....	.....	.....	.....	5
.....	2,322	120	200	3	1	4	2,322	.....	.....	.....	.....	.....	.....	6
.....	1,600	26	200	4	1	5	1,600	.....	.....	.....	.....	.....	.....	7
.....	225	40	78	4	1	5	225	.....	.....	.....	.....	.....	.....	8
.....	31,183	924	176	36	11	47	31,183	.....	1	.....	.....	.....	.....	.....
153,178	67,240	9,721	180	258	118	376	220,418	.....	2	.....	.....	.....	.....	.....

Peoria County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES						
1	Clark C. & C. Co., Empire No. 2	Peoria		126,707	126,707	253,414
2	Crescent Coal Co., No. 1	do	27,364	65,363	87,598	180,325
3	Deming & Cruikshank, No. 3	do	21,500	55,766	32,382	109,648
4	Newsam Bros., Kingston, No. 3	Kingston Mines	19,567	53,601	35,065	108,233
5	Wolschlog Coöperative C. Co.	Peoria	61,117	15,600	11,124	87,841
6	Applegate & Lewis C. Co., Hanna	Hanna City	10,406	26,215	14,882	51,503
7	Brewster & Evans C. Co., Walben	Peoria	49,946			49,946
8	Olympia C. & M. Co., Olympia	Edwards	4,356	27,138	11,406	42,900
9	Collier Coöperative Coal Co.	Bartonville	12,740	15,980	9,500	38,220
10	Mapleton Coal Co., Mapleton	Mapleton	8,073	10,138	6,013	24,221
11	Larsaw Coal Co., Edwards	Edwards	874	9,645	11,793	22,312
12	Lancaster Ldg. C. & Trans Co., K. Mine	Kingston Mine.	20,052	1,100	280	21,402
13	Isaac Wantling & Co.	Peoria	915	14,899	5,158	20,972
14	German Coal Co.	Mapleton	15,214			15,214
Total			252,124	422,149	351,878	1,026,151
LOCAL MINES.						
1	F. P. Schmidt	Peoria	2,261	41,018	2,082	45,361
2	Winter Coal Co.	Bartonville	27,000			27,000
3	Treasure Coal Co.	do	4,779	9,560	1,132	15,471
4	Hubbard and Sneddon & Co.	Peoria		9,574		9,574
5	Fisher & Blank	do	8,000			8,000
6	Mohn Coal Co.	do		7,702		7,702
7	Limestone Coal Co.	do		5,845	100	5,945
8	John Meyer	Chillicothe	3,560		1,605	5,165
9	P. Martin	Peoria		5,000	100	5,100
10	Heitzman & Smith C. Co.	Mapleton	780	3,435	372	4,587
11	Collier Bros.	Chillicothe	4,449			4,449
12	Thomas Short	Brimfield		4,000		4,000
13	R. Taylor & Sons.	do		3,695	172	3,867
14	James Dalton	Elmwood		2,600	600	3,200
15	Bell Coal Co.	Peoria		3,000		3,000
16	Keller Coal Co.	Bartonville	3,000			3,000
17	Fair Oaks Coal Co.	Peoria		2,500		2,500
18	Louis A. Schmidt	do	2,115			2,115
19	Cahill and Strong	Brimfield		2,000	100	2,100
20	Carl Goetz	Peoria	144	1,813	50	2,007
21	John H. Smith	Glasford	100	1,200	600	1,900
22	Baker Bros.	Kingston Mines	1,308			1,308
23	George Vicory	Peoria		1,275		1,275
24	Robert Scott	Oak Hill		1,200		1,200
25	Henning & Clarkson	Edwards	1,060			1,060
26	Thomas Jones	Peoria	1,019			1,019
27	J. W. Miller	Laura		1,003		1,003
28	Frank Martin	Chillicothe		1,000		1,000
29	Harry J. Green	Hanna City		680	120	800
30	Fred F. Martin	Peoria	750			750
31	Wm. Pool	Edwards		640		640
32	Appleby & Taylor	do	100	440		540
33	R. C. Crew	Chillicothe		515	10	525
34	Henry Penn	Hanna City	500			500
35	Clark and Martin	Brimfield		342	114	456
36	Jas. Radlbeck & Pemble	do	327		33	360
37	Wm. Simons	Chillicothe	350			350
38	John Cannon	Peoria		325	10	335
39	James Farrell	Edwards	320			320
40	Staton & Blessing	Mapleton	320			320

Third District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Accidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
244,414	9,000	15,152	228	199	81	280	253,414	.....	1	2	Solid...	.....	.....	1
179,696	629	11,132	215	190	58	248	180,325	.....	.....	.....	do.	.....	13	2
105,648	4,000	3,605	230	85	50	135	59,264	50,384	.....	.....	Both.	.....	9	3
105,864	2,379	6,742	246	93	35	128	108,233	.....	.....	.....	Solid	.....	7	4
78,604	9,237	5,598	225	64	27	91	87,841	.....	.....	.....	do.	.....	.....	5
48,503	3,000	779	197	.....	91	91	.....	51,503	.....	.....	U. C.	.....	5	6
49,946	.....	3,453	184	42	29	71	49,946	.....	.....	2	Solid.	.....	6	7
40,765	2,135	2,572	185	67	20	87	42,900	.....	.....	.....	do.	.....	6	8
37,020	1,200	2,584	197	30	12	42	38,220	.....	.....	.....	do.	.....	5	9
23,721	500	1,556	143	50	8	58	24,221	.....	.....	.....	do.	.....	.....	10
21,364	948	1,456	180	28	14	42	22,312	.....	.....	.....	do.	.....	3	11
20,652	750	1,447	221	30	17	47	21,402	.....	.....	.....	do.	.....	4	12
20,972	.....	1,700	194	35	12	47	20,972	.....	.....	.....	do.	.....	3	13
13,818	1,396	176	226	14	5	19	.....	15,214	.....	.....	U. C.	.....	1	14
990,987	35,164	59,952	205	927	459	1,386	909,050	117,101	1	4	.....	.....	64	.....
.....	45,361	486	231	7	5	12	45,361	.....	.....	.....	.....	.....	.....	1
.....	27,000	1,350	264	18	3	21	27,000	.....	.....	.....	.....	.....	.....	2
.....	15,471	900	182	18	6	24	15,471	.....	.....	.....	.....	.....	.....	3
.....	9,574	600	190	14	4	18	9,574	.....	.....	.....	.....	.....	.....	4
.....	8,000	533	144	6	3	9	8,000	.....	.....	.....	.....	.....	.....	5
.....	7,702	550	160	12	3	15	7,702	.....	.....	.....	.....	.....	.....	6
.....	5,945	594	200	10	4	14	5,945	.....	.....	.....	.....	.....	.....	7
.....	5,165	30	98	3	.....	3	5,165	.....	.....	.....	.....	.....	.....	8
.....	5,100	380	180	7	3	10	5,100	.....	.....	.....	.....	.....	.....	9
.....	4,587	320	247	4	1	5	4,587	.....	.....	.....	.....	.....	.....	10
.....	4,449	317	180	8	1	9	4,449	.....	.....	.....	.....	.....	.....	11
.....	4,000	20	76	3	.....	3	4,000	.....	.....	.....	.....	.....	.....	12
.....	3,867	455	172	6	2	8	3,867	.....	.....	.....	.....	.....	.....	13
.....	3,200	100	200	4	.....	4	3,200	.....	.....	.....	.....	.....	.....	14
.....	3,000	240	200	8	.....	8	3,000	.....	.....	.....	.....	.....	.....	15
.....	3,000	200	185	4	.....	4	3,000	.....	.....	.....	.....	.....	.....	16
.....	2,500	208	250	5	2	7	2,500	.....	.....	.....	.....	.....	.....	17
.....	2,115	115	115	5	1	6	2,115	.....	.....	.....	.....	.....	.....	18
.....	2,100	150	300	5	2	7	2,100	.....	.....	.....	.....	.....	.....	19
.....	2,007	100	200	6	3	9	2,007	.....	.....	.....	.....	.....	.....	20
.....	1,900	80	200	3	.....	3	1,900	.....	.....	.....	.....	.....	.....	21
.....	1,308	56	120	3	1	4	1,308	.....	.....	.....	.....	.....	.....	22
.....	1,275	75	130	2	.....	2	1,275	.....	.....	.....	.....	.....	.....	23
.....	1,200	40	100	2	.....	2	1,200	.....	.....	.....	.....	.....	.....	24
.....	1,060	88	150	2	.....	2	1,060	.....	.....	.....	.....	.....	.....	25
.....	1,019	65	120	3	.....	3	1,019	.....	.....	.....	.....	.....	.....	26
.....	1,003	.....	200	3	.....	3	1,003	.....	.....	.....	.....	.....	.....	27
.....	1,000	125	100	4	.....	4	1,000	.....	.....	.....	.....	.....	.....	28
.....	800	25	200	2	1	3	800	.....	.....	.....	.....	.....	.....	29
.....	750	37	150	1	1	2	750	.....	.....	.....	.....	.....	.....	30
.....	640	.....	200	2	1	3	640	.....	.....	.....	.....	.....	.....	31
.....	540	31	156	2	.....	2	540	.....	.....	.....	.....	.....	.....	32
.....	525	35	263	2	.....	2	525	.....	.....	.....	.....	.....	.....	33
.....	500	25	150	2	.....	2	500	.....	.....	.....	.....	.....	.....	34
.....	456	.....	160	2	2	4	456	.....	.....	.....	.....	.....	.....	35
.....	360	3	120	2	1	3	360	.....	.....	.....	.....	.....	.....	36
.....	350	25	225	2	.....	2	350	.....	.....	.....	.....	.....	.....	37
.....	335	17	70	1	.....	1	335	.....	.....	.....	.....	.....	.....	38
.....	320	.....	150	2	.....	2	320	.....	.....	.....	.....	.....	.....	39
.....	320	28	120	4	.....	4	320	.....	.....	.....	.....	.....	.....	40

Peoria County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
LOCAL MINES— <i>Concluded.</i>						
41	Thomas Wantling.....	Peoria.....		278		278
42	Fussner Bros.....	Brimfield.....		260		260
43	Wm. M. Jones & Son.....	Mapleton.....		240		240
44	Thomas Searcliff.....	do.....	238			238
45	Edward Snider.....	Edwards.....	200			200
46	H. H. Wickwire.....	do.....		175		175
47	Frank Maire.....	Peoria.....		132		132
48	W. P. Cramer.....	Edwards.....		125		125
49	Jubilee College C. Co.....	Oak Hill.....		100		100
50	M. H. Wood.....	Hanna City.....	20			20
Total.....			62,700	111,672	7,200	181,572
Total—64 mines.....			314,824	533,821	359,078	1,207,723

Mines reported for 1911, 66.

New mines, 12.

Abandoned mines, 14.

Mines in 1912, 64.

Putnam County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	St. Paul Coal Co., No. 1.....	Granville.....	21,990	323,338	68,297	413,625
2	B. F. Berry Coal Co., No. 1.....	Taft.....	266	179,738	122,902	302,906
Total—2 mines.....			22,256	503,076	191,199	716,531

Mines reported in 1911, 2.

Mines in 1912, 2.

Third District—Concluded.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Accidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
.....	278	15	120	2	.....	2	278	.....	.....	.....	.....	.....	.....	41
.....	260	22	175	1	.....	1	260	.....	.....	.....	.....	.....	.....	42
.....	240	17	45	2	.....	2	240	.....	.....	.....	.....	.....	.....	43
.....	238	1	40	1	.....	1	238	.....	.....	.....	.....	.....	.....	44
.....	200	11	55	2	2	4	200	.....	.....	.....	.....	.....	.....	45
.....	175	.....	106	1	.....	1	175	.....	.....	.....	.....	.....	.....	46
.....	132	6	35	1	1	2	132	.....	.....	.....	.....	.....	.....	47
.....	125	5	75	1	.....	1	125	.....	.....	.....	.....	.....	.....	48
.....	100	.....	50	1	.....	1	100	.....	.....	.....	.....	.....	.....	49
.....	20	3	50	2	.....	2	20	.....	.....	.....	.....	.....	.....	50
.....	181,572	8,583	130	213	53	266	181,572	.....	.....	1	.....	.....	.....	.....
990,987	216,736	68,535	164	1,140	512	1,652	1,090,622	117,101	1	5	.....	.....	64	.....

Third District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Accidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
393,208	20,417	.....	258	617	157	774	413,625	.....	1	16	U. C. ....	.....	70	1
288,515	14,391	.....	229	445	135	580	302,906	.....	.....	15	do. ....	.....	55	2
681,723	34,808	.....	244	1,062	292	1,354	716,531	.....	1	31	.....	.....	125	.....

Tazewell County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	Tazewell Coal Co., Shaft	Pekin	27,982	35,626	62,598	126,206
2	Eastern Coal Co., Eastern	Peoria	23,274	11,638	34,912	34,912
3	Ubben Coal Co., No. 1	Pekin	8,930	12,600	5,400	26,930
4	Champion Coal Co., No. 1	do	1,500	8,300	4,200	14,000
5	C. J. Off, Phenix No. 1	Peoria	7,690	.....	64	7,754
Total			46,102	79,800	83,900	209,802
LOCAL MINES.						
1	Lake Erie C. & M. Co.	East Peoria	15,699	.....	.....	15,699
2	Marion Marteness	do	9,143	.....	.....	9,143
3	Grebelhausen Coal Co.	do	4,780	.....	.....	4,780
Total			29,622	.....	.....	29,622
Total—8 mines			75,724	79,800	83,900	239,424

Mines reported for 1911, 8.

Mines for 1912, 8.

Woodford County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	Roanoke Coal Co., Roanoke.....	Roanoke.....	214	81,064	41,274	122,552
2	Minonk Coal Co., No. 2.....	Minonk.....		32,220	29,124	61,344
	Total—2 mines.....		214	113,284	70,398	183,896

Mines reported for 1911, 2.

Mines in 1912, 2.

Third District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Ac-cidents.		Blasting coal—from solid or undercut or both.	Number of animals under-ground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
111,005	15,201	2,051	250	-----	155	155	-----	126,206	-----	4	U. C.	-----	22	1
15,268	19,644	1,836	231	41	11	52	34,912	-----	-----	-----	Solid.	-----	4	2
15,930	11,000	1,300	205	35	11	46	26,930	-----	-----	-----	do.	-----	4	3
11,500	2,500	650	189	23	6	29	14,000	-----	-----	-----	do.	-----	2	4
7,690	64	414	52	40	19	59	7,754	-----	-----	-----	do.	-----	5	5
161,393	48,409	6,251	185	139	202	341	83,596	126,206	-----	4	-----	-----	37	
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
-----	15,699	831	261	22	6	28	15,699	-----	-----	-----	-----	-----	-----	1
-----	9,143	407	210	12	3	15	9,143	-----	-----	-----	-----	-----	-----	2
-----	4,780	200	165	6	2	8	4,780	-----	-----	-----	-----	-----	-----	3
-----	29,622	1,438	212	40	11	51	29,622	-----	-----	-----	-----	-----	-----	
161,393	78,031	7,689	175	179	213	392	113,218	126,206	-----	4	-----	-----	37	

Third District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Ac-cidents.		Blasting coal—from solid or undercut or both.	Number of animals under-ground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
104,288	18,264	-----	253	203	63	266	122,552	-----	1	4	Solid.	-----	38	1
51,294	10,050	10	173	114	43	157	61,344	-----	-----	3	do.	-----	22	2
155,582	28,314	10	212	317	106	423	183,896	-----	1	7	-----	-----	60	

Shipping mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons.						Total.	Disposition of out-put—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
Marshall.....	5	3,347	340,783	.....	2,970	49,903	44,728	441,731	359,649	82,082
Menard.....	4	51,201	68,471	12,467	9,101	42,565	5,430	189,235	153,178	26,057
Peoria	14	252,124	422,149	61,096	60,184	202,253	28,345	1,026,151	990,987	35,164
Putnam.....	2	22,256	503,076	64,814	.....	126,109	276	716,531	681,723	34,808
Tazewell.....	5	46,102	79,800	29,504	.....	47,017	7,379	209,802	161,393	48,409
Woodford.....	2	214	113,284	36,061	3,409	24,707	6,221	183,896	155,582	28,314
Total.....	32	375,244	1,527,563	203,942	75,664	492,554	92,379	2,767,346	2,502,512	264,834

Local mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons.						Total.	Disposition of out-put—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
Marshall.....	8	5,013	350	.....	.....	.....	.....	5,363	.....	5,363
Menard.....	8	18,532	8,740	.....	.....	.....	3,911	31,183	.....	31,183
Peoria	50	62,700	111,672	.....	.....	.....	7,200	181,572	.....	181,572
Tazewell.....	3	29,622	.....	.....	.....	.....	.....	29,622	.....	29,622
Total	69	115,867	120,762	.....	.....	.....	11,111	247,740	.....	247,740
The District...	101	491,111	1,648,325	203,942	75,664	492,554	103,490	3,015,086	2,502,512	512,574

Whole number of mines reported for 1911, 100.
Number of new mines opened during the year, 16.
Number of mines abandoned during the year, 15.
Whole number of mines reported for 1912, 161.

counties—Third District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees.					Tons mined.		Blasting coal.		
		Underground.			All above ground.	Total.	By hand.	By machine.	From solid—tons.	Undercut—tons.	Both methods—tons
		Miners.	Others.	Boys.							
2,921	218	697	203	30	108	1,038	432,580	9,151	425,078	.....	16,653
8,797	189	222	62	13	32	329	189,235	.....	189,235	.....	.....
59,952	205	927	312	17	130	1,386	909,050	117,101	849,786	66,717	109,648
.....	244	1,062	197	11	84	1,354	716,531	.....	.....	716,531	.....
6,251	185	139	166	.....	36	341	83,596	126,206	83,596	126,206	.....
10	212	317	57	23	26	423	183,896	.....	183,896	.....	.....
77,931	205	3,364	997	94	416	4,871	2,514,888	252,458	1,731,591	909,454	126,301

counties—Third District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees.						Tons mined.		Blasting coal.		
		Underground.			All above ground.	Total.	By hand.	By machine.	From solid—tons.	Undercut—tons.	Both methods—tons.	
		Miners.	Others.	Boys.								
134	146	21	.....	.....	8	29	5,363	.....	.....	.....	.....
924	176	36	.....	.....	11	47	31,183	.....	.....	.....	.....
8,583	130	213	.....	7	46	266	181,572	.....	.....	.....	.....
1,438	212	40	.....	.....	11	51	29,622	.....	.....	.....	.....
11,079	157	310	.....	7	76	393	247,740	.....	.....	.....	.....
89,010	172	3,674	997	101	492	5,264	2,762,628	252,458	.....	.....	.....

All mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons.						Total.	Disposition of out-put—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
Marshall.....	13	8,360	341,133	.....	2,970	49,903	44,728	447,094	359,649	87,445
Menard.....	12	69,733	77,211	12,467	9,101	42,565	9,341	220,418	153,178	67,240
Peoria.....	64	314,824	533,821	61,096	60,184	202,253	35,545	1,207,723	990,987	216,736
Putnam.....	2	22,256	503,076	64,814	.....	126,109	276	716,531	681,723	34,808
Tazewell.....	8	75,724	79,800	29,504	.....	47,017	7,379	239,424	161,393	78,031
Woodford.....	2	214	113,284	36,061	3,409	24,707	6,221	183,896	155,582	28,314
Total	101	491,111	1,648,325	203,942	75,664	492,554	103,490	3,015,086	2,502,512	512,574

counties—Third District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees.						Tons mined.		Blasting coal.		
		Underground.			All above ground.	Total.		By hand.	By machine.	From solid—tons.	Undercut—tons.	Both methods—tons.
		Miners.	Others.	Boys.								
3,055	174	718	203	30	116	1,067	437,943	9,151	.....	.....	.....	.....
9,721	180	258	62	13	43	376	220,418	.....	.....	.....	.....	.....
68,535	164	1,140	312	24	176	1,652	1,090,622	117,101	.....	.....	.....	.....
.....	244	1,062	197	11	84	1,354	716,531	.....	.....	.....	.....	.....
7,689	195	1-9	166	.....	47	392	113,218	126,206	.....	.....	.....	.....
10	212	317	57	23	26	423	183,896	.....	.....	.....	.....	.....
89,010	172	3,674	997	101	492	5,264	2,762,628	252,458	.....	.....	.....	.....

FOURTH INSPECTION DISTRICT—1912.

ANNUAL REPORT.

Counties—Fulton, Hancock, McDonough, Morgan, Schuyler, Scott.

JAMES TAYLOR, *Inspector*, Peoria.

Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield:

SIR—Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing counties of Fulton, Hancock, McDonough, Morgan, Schuyler and Scott.

SUMMARY OF THE ITEMS SHOWN IN THE REPORT.

Number of counties producing coal.....	6
Number of shipping mines.....	20
Number of local mines.....	166
Number of new or reopened mines.....	97
Number of closed or abandoned mines.....	60
Number of miners.....	2,683
Others underground, men.....	1,016
Boys underground.....	42
Boys above ground.....	6
Others above ground.....	342
Total number of employees.....	4,095
Total tons of coal produced.....	2,471,286
Days of active operation, all mines.....	146
Kegs of powder used for blasting coal.....	120,941
Tons of coal shipped.....	2,220,140
Tons supplied to locomotives.....	33,960
Tons sold to local trade.....	150,405
Tons consumed and wasted at the mines.....	66,781
Number of fatal accidents.....	7
Number of non-fatal accidents.....	5
Number of employees to each fatal accident.....	585
Number of employees to each non-fatal accident.....	819
Tons of coal produced to each fatal accident.....	353,041
Tons of coal produced to each non-fatal accident.....	494,257
Ratio of fatal accidents per 1,000 employees.....	1.71

The output of coal by counties for the years ended June 30, 1911, and 1912, with the increase or decrease, is shown in the following table:

Counties.	Total output—tons.		Increase.	Decrease.
	1911.	1912.		
Fulton.....	1,865,222	2,437,173	571,951	
Hancock.....	2,439	2,920	481	
McDonough.....	23,999	23,612		387
Morgan.....	1,515	1,085		430
Schuyler.....	1,892	2,736	844	
Scott.....	5,553	3,760		1,793
Total.....	1,900,620	2,471,286	573,276	2,610
Net increase.....			570,666	

NEW AND ABANDONED MINES.

Ninety-seven local mines are reported as new, and fifty-eight local and two shipping mines have been abandoned since last report.

FIRE.

The tippie of the Star Coal Company's No. 2 mine, Cuba, Fulton County, was struck by lightning and burned down, May 7, 1912.

IMPROVEMENTS.

The Big Creek Coal Company, St. David, has sunk a new air-shaft near the face of the workings, also increased the number of refuge places on haulage roadways.

Canton Coal Company, Canton, has removed the fan from the old escapement shaft to the new air-shaft, located about one mile west of the hoisting shaft. The fan is operated by electricity and is giving satisfaction.

Mr. Thomas Simmons, president of the Simmons Coal Company, Canton, has invented a very simple and inexpensive automatic device to lock the surface landing gates, when the cages are away. When the cage is at the surface landing the gate is unlocked; when the cage is moved the gate is locked and cannot be opened until the cage is stopped at the landing. The purpose of this invention is to prevent the possibility of pushing a car, or a person falling, down the shaft. Mr. Simmons has secured no patent on this invention. He says that if it will save life and limb, he desires that all shall have the privilege of using it.

Eagle Mining Company, Canton; the ventilation on the south side of shaft has been improved by the sinking of a new air shaft.

The first gasoline locomotive in this district has been installed in this mine, and is giving satisfaction to the company in handling the loaded cars in the mine, hauling from twelve to thirty-five loaded cars each trip. I find no ill effects from this gasoline motor upon the ventilation of the mine.

Roadways and aircourses have been cleaned out in part and lawful refuge places made.

Silver Creek Coal Company, Farmington, has made the escapement shaft fire-proof by replacing the wooden stairways with iron ones. The hoisting shaft and bottom parting have been made fire-proof. They have secured the necessary number of fire buckets and extinguishers.

Spoon River Coal Company, Mayton; better ventilation and safety to the men working in this mine has been secured by the sinking of a new air and escapement shaft near the working face on the north side.

Mines Nos. 1, 2 and 3, of the Star Coal Company, Cuba, have been improved by cleaning out aircourses and passageways to escapement. Lawful refuge places have been made and better ventilation secured in Nos. 1 and 2 mines.

Norris Coal Mining Company, Norris, has partly completed the cleaning out of aircourses and has installed electric lights at the bottom of hoisting shaft, and in passageways to escapement.

Alden Coal Company, Norris; the improvements at this mine have been secured by installing a water sprinkling tank made of boiler iron. This tank is filled with water under pressure. The roadways, sides, top, etc., are sprinkled. It takes but a few hours to thoroughly sprinkle all the haulage roads in the mine. This mine is the best sprinkled mine in this district.

Maplewood Colliery Company, Farmington, at the bottom of the hoisting shaft, has concreted the sides and secured the roof with iron beams.

For weighing the coal as it comes from the miners a self-registering scale has been installed which is giving general satisfaction. The company has increased the number of refuge places along the haulage way.

Monmouth Coal Company, Brereton; the ventilation in this mine has been greatly improved by the installation of an auxiliary fan at a distance of 9,000 feet (the way the air travels) from the main fan.

COMPLAINT FILED FOR VIOLATION OF THE MINING LAW.

Complaint against the coal operators, mine managers, and mine examiners of two shipping mines were filed with the state's attorney of Fulton County, for violation of the mining law. They were bound over to the grand jury and afterward indicted and are now awaiting trial at the September term of court.

FATAL ACCIDENTS.

October 28, 1911, Charley Insel, laborer, aged 54 years, married, employed at the Monmouth Coal Co.'s mine, Brereton, Fulton County, was engaged in sending props into the mine when he fell down the shaft and was instantly killed. He leaves a widow and three children.

November 27, 1911, John Larson, miner, aged 63 years, married, was killed by a fall of rock in the Colchester Coal Co.'s mine, Colchester, McDonough County. He leaves a widow and six children.

December 4, 1911, Arlie France, driver, aged 24 years, married, was injured, Nov. 29, 1911, by pit cars in the Star Coal Co.'s No. 2 mine, Cuba, Fulton County, and died four days later. He leaves a widow and one child.

January 25, 1912, Frank Strakes, timberman, aged 31 years, single, employed in the Maplewood Colliery Company's No. 2 mine, Farmington, Fulton County, was killed. Deceased was placing a door in position when he was struck by a trip of loaded cars and his neck broken.

February 22, 1912, William McVey, laborer, aged 37 years, married, employed by the Norris Coal Mining Company, Norris, Fulton County, was struck by a lever and killed. Deceased had gotten up on the running board of the coal chute to help coal an engine and in trying to open the door of the chute a hook broke and released a lever which struck him on the head. He leaves a widow and four children.

April 20, 1912, Clyde Irwin, driver, aged 23 years, single, was injured in the Adams & Irwin mine, Canton, Fulton County. Mr. Irwin was a member of the firm, but was driving that day. He was caught between the roof and loaded cars, receiving an injury to his spine from the effects of which he died May 17, 1912.

May 20, 1912, Joseph Smiles, trapper, aged 65 years, married, was caught between the door and loaded cars and killed, in the Maplewood Colliery Co.'s mine No. 2, Farmington, Fulton County. He leaves a widow and seven children.

Respectfully submitted,

JAMES TAYLOR,

State Inspector of Mines, Fourth District, Peoria, Ill.

Fatal casualties—Fourth District—June 30, 1912.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Single.	Widow.	Children.	Dependents.	Cause of death.
1911.										
Oct. 28	Charley Insel.....	54	Laborer.....	Brereton.....	1	..	1	3	4	Fell down shaft.....
Nov. 27	John Larson.....	63	Miner.....	Colchester.....	1	..	1	6	6	Falling rock.....
Dec. 4	Arlie Francis.....	24	Driver.....	Cuba.....	1	..	1	1	2	Pit cars.....
1912.										
Jan. 25	Frank Strakes.....	31	Timberman.....	Farmington.....	1	..	1	..	..	Pit cars.....
Feb. 22	William McVey.....	37	Laborer.....	Norris.....	1	..	1	4	5	Struck by lever.....
Apr. 20	Clyde Irvin.....	23	Driver.....	Canton.....	..	1	..	..	..	Pit cars.....
May 18	Jas Smiles.....	65	Trapper.....	Farmington.....	1	..	1	7	2	Pit cars.....
	Total.....				6	1	6	21	19	

Recapitulation of fatal casualties—Fourth District—1912.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Brereton.....	1	Driver.....	2	Falling rock.....	1	Adams & Irwin.....	1
Canton.....	1	Laborer.....	2	Fell down shaft.....	1	Colchester.....	1
Colchester.....	1	Miner.....	1	Pit cars.....	4	Maplewood.....	2
Cuba.....	1	Timberman.....	1	Struck by lever.....	1	Monmouth.....	1
Farmington.....	2	Trapper.....	1			Norris.....	1
Norris.....	1					Star.....	1
Total.....	7		7		7		7

Non-fatal casualties—Fourth District—June 30, 1912.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents.	Character of injury and cause of accident.	Time lost—days.
1911:									
Aug. 21	Cash M. Hutchison...	32	Canton.....	1	..	..	1	Leg broken, falling coal.....	90
Oct. 19	Harry C. Hindson....	34	do.....	1	..	4	5	Arm broken, falling slate.....	96
1912.									
Feb. 5	A. M. Eyman.....	32	Lewistown.....	1	..	3	4	Back injured, falling rock.....	*
16	Roy Durham.....	22	Farmington.....	1	..	..	1	Hand injured, pit cars.....	38
Mar. 13	Hillis Deford.....	26	do.....	1	..	1	2	Back injured, cross bar.....	*
	Total.....			5	..	8	13		

* Not returned to work.

Total number injured..... 5

Number not returned to work July 1, 1912..... 2

Number returned to work..... 3

Total days lost by men returned to work..... 224

Average days lost..... 74.67

Recapitulation of non-fatal casualties—Fourth District—1912.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Canton.....	2	Driver.....	1	Cross bar.....	1	Big Creek.....	1
Farmington....	2	Machine helper.	1	Falling coal.....	1	Canton.....	1
Lewistown.....	1	Mine manager..	1	Falling rock.....	1	Eyman, A. M.....	1
		Miners.....	1	Falling slate.....	1	Maplewood.....	1
		Operator.....	1	Pit car.....	1	National.....	1
Total.....	5		5		5		5

Recapitulation of non-fatal casualties, nature of injuries, conjugal relations and time lost—Fourth District—1912.

Nature of injuries.	Number.	Married.	Single.	Children.	Dependents.	Time lost—days.		Percentage of injuries.
						Total.	Average.	
Arm broken.....	1	1	.....	4	5	96	96.00	20.00
Back injured.....	2	2	.....	4	6	.....	.....	40.00
Hand injured.....	1	1	.....	.....	1	38	38.00	20.00
Leg broken.....	1	1	.....	.....	1	90	90.00	20.00
Total.....	5	5	.....	8	13	224	74.67	100.00

Fulton County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	Maplewood Colliery Co., No. 2	Farmington	35,134	89,300	179,066	303,500
2	Big Creek Coal Co., No. 2	St. David	56,621	60,329	154,779	271,729
3	Monmouth Coal M. Co., No. 1	Brereton	3,134	71,306	131,990	206,430
4	Big Creek Coal Co., No. 4	Dunfermline	80,244	29,484	80,732	190,460
5	Alden Coal Co., No. 6	Norris	1,508	46,107	118,564	166,179
6	Canton Coal Mining Co.	Canton	2,083	39,879	116,855	158,817
7	Norris Coal Mining Co., Norris	Norris	6,858	57,469	92,004	156,331
8	Eagle Mining Co., Eagle	Canton	32,487	69,717	30,156	132,360
9	Simmons Coal Co., Simmons M.	do.	1,152	42,605	82,706	126,463
10	Star Coal Co., No. 1	Cuba	6,232	26,351	69,012	101,595
11	Maplewood Coal Co., No. 1	Farmington	5,894	50,473	29,613	85,980
12	Alden Coal Co., Alden No. 5	do.	6,886	27,181	50,762	84,829
13	National Coal Mining Co., National	do.	1,076	43,710	28,685	73,471
14	Star Coal Co., No. 3	Cuba	do.	19,239	49,870	69,109
15	Star Coal Co., No. 2	do.	17,504	31,019	20,035	68,558
16	Silver Creek Colliery Co., S. C. No. 1	Farmington	5,012	21,401	21,922	48,335
17	Star Coal Co., No. 1	Fiatt	do.	11,837	27,276	39,113
18	Spoon River Coal Co., No. 1	Mayton	11,455	10,649	5,340	27,444
19	Coal Creek Mining Co., P. V. Mine	Fairview	9,929	1,903	1,239	13,071
20	Big Creek Coal Co., No. 3	Cuba	1,822	5,140	3,022	9,984
Total			285,031	755,099	1,293,628	2,333,758
LOCAL MINES.						
1	Geo. Westerby	Farmington	2,250	4,500	1,000	7,750
2	W. C. Passent	Ellisville	6,500	do.	do.	6,500
3	Neil Baxter	Canton	do.	6,250	do.	6,250
4	Landis & Wages	do.	do.	5,720	do.	5,720
5	Joe McLaughlin	do.	do.	3,000	200	3,200
6	E. G. Boder	Astoria	3,000	do.	do.	3,000
7	Jack Walch	Cuba	3,000	do.	do.	3,000
8	C. Q. Falkenstein	Astoria	2,500	do.	do.	2,500
9	Adams & Irwin	Canton	do.	2,160	do.	2,160
10	Jas. Yocum	Lewistown	do.	2,010	40	2,050
11	E. C. Angle	Cuba	do.	2,000	20	2,020
12	Sy Hilton	do.	1,600	do.	do.	1,600
13	O. W. Davis	Lewistown	1,000	do.	500	1,500
14	Nicholas Bennett	Cuba	do.	1,500	do.	1,500
15	E. L. Bishop	do.	1,425	do.	do.	1,425
16	A. J. Gunnett	Fairview	do.	1,355	do.	1,355
17	Bath Bros	St. David	do.	1,270	do.	1,270
18	W. C. Anderson	Canton	1,100	do.	150	1,250
19	W. C. Morgrant	Canton, R. R.	1,250	do.	do.	1,250
20	Henry Vonack	Lewistown	1,200	do.	do.	1,200
21	Joseph Wilson	Astoria	1,200	do.	do.	1,200
22	Elmer DeLong	Fairview	1,100	do.	do.	1,100
23	Rand & Co.	St. David	do.	1,000	do.	1,000
24	Kingsley & Bitner	Glasford	1,000	do.	do.	1,000
25	Frank Hubble	Avon, R. R.	1,000	do.	do.	1,000
26	Ed Clarkson	Fairview	1,000	do.	do.	1,000
27	Dan Coplinger	Cuba	1,000	do.	do.	1,000
28	John Johnson	St. David	do.	1,000	do.	1,000
29	G. F. Nemmerlis Bros.	Breeds	do.	960	do.	960
30	A. M. Eymann	Lewistown	500	400	50	950
31	Joseph McCanant	Table Grove	do.	900	do.	900
32	John Gillett	Glasford	900	do.	do.	900

Fourth District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Accidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
296,380	7,120	19,153	217	250	120	370	303,500		2		Solid.	35		1
261,218	10,511	7,591	230	90	271	361	51,919	219,810			Both.	2		2
201,094	5,336	11,055	171	200	92	292	206,430		1		Solid.	30		3
182,014	8,446	4,049	195	41	217	258	31,953	158,507		1	Both.	27		4
159,330	6,849	10,067	184	160	75	235	166,179				Solid.	20		5
157,017	1,800	8,418	226	140	53	193	158,817		1	1	do.	23		6
131,301	25,030	8,359	186	180	78	258	156,331		1		do.	23		7
110,656	21,704	6,885	232	120	40	160	132,360				do.	13		8
123,908	2,555	6,303	205	110	52	162	126,463				do.	27		9
97,490	4,105	4,373	194	160	32	192	101,595				do.	20		10
80,744	5,236	5,575	199	105	47	152	85,980			1	do.	10		11
82,762	2,067	5,374	168	115	52	167	84,829				do.	14		12
70,471	3,000	4,463	193	91	28	119	73,471			1	do.	8		13
66,909	2,200	3,042	174	85	25	110	69,109				do.	7		14
66,458	2,100	2,876	146	70	20	90	68,558		1		do.	7		15
46,135	2,200	2,685	220	108	44	152	31,119	17,216			Both.	7		16
37,693	1,420	2,006	106	80	30	110	39,113				Solid.	8		17
25,967	1,477	2,100	169	40	19	59	27,444				do.	10		18
13,071		751	200	17	5	22	13,071				do.	3		19
9,522	462	444	42	45	33	78	9,984				do.	9		20
2,220,140	113,618	115,579	183	2,207	1,333	3,540	1,938,225	395,533	5	4		8	332	
7,750	400	200	10	3	13	13	7,750							1
6,500	225	200	10	2	12	12	6,500							2
6,250	456	250	10	2	12	12	6,250							3
5,720	480	208	8	1	9	9	5,720							4
3,200	160	200	7	2	9	9	3,200							5
3,000	150	250	3	2	5	5	3,000							6
3,000	125	240	4		4	4	3,000							7
2,500	125	200	5	1	6	6	2,500							8
2,160	210	220	8	2	10	10	2,160		1					9
2,050	125	240	6	3	9	9	2,050							10
2,020	100	150	3		3	3	2,020							11
1,600	60	200	2		2	2	1,600							12
1,500	110	200	5	2	7	7	1,500							13
1,500	50	150	3		3	3	1,500							14
1,425	75	200	4		4	4	1,425							15
1,355	45	312	3		3	3	1,355							16
1,270	56	168	3		3	3	1,270							17
1,250	65	175	4	2	6	6	1,250							18
1,250	50	200	3		3	3	1,250							19
1,200	50	200	4	1	5	5	1,200							20
1,200	50	175	4	1	5	5	1,200							21
1,100	15	175	4	1	5	5	1,100							22
1,000	45	175	3		3	3	1,000							23
1,000	40	175	3		3	3	1,000							24
1,000	50	200	5		5	5	1,000							25
1,000	50	300	1	1	3	3	1,000							27
1,000	45	175	3		3	3	1,000							27
1,000	45	175	3		3	3	1,000							28
960	44	210	3		3	3	960							29
950	60	250	2		2	2	950			1				30
900	40	175	4	1	5	5	900							31
900	40	175	3	1	4	4	900							32

Fullon County—

Number.	Name of operator	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
LOCAL MINES—Continued.						
33	P. Taylor	Glasford, R. R.	900			900
34	E. S. Mason	Canton, R. R.	900			900
35	C. F. Romden	Cuba		852	20	872
36	John Whitehead	Maple Mills		800		800
37	Will Johnson	Cuba	800			800
38	Fred Nauneker	Marietta	800			800
39	Harvey Johnson	Brees	800			800
40	Brickert & Newberry	Lewistown	750			750
41	Silas Simpson	Cuba, R. R.	750			750
42	Jas. Olliver	Marietta	700			700
43	Don Valentine	Summum		700		700
44	Ross Parr	Astoria	500	200		700
45	Henry Vice	Fairview		680		680
46	E. H. Miller	Marietta	650			650
47	Lafe Swearinger	Table Grove	650			650
48	William Taylor	Canton		620		620
49	W. A. Sheets	Fairview		615		615
50	Geo. H. Stambaugh	Summum		600		600
51	The Anderson	Marietta	600			600
52	Jess Lindsey	Lewistown	600			600
53	W. F. McBride	Fairview	600			600
54	John Stufflebean	Lewistown	600			600
55	White & Price	Canton	600			600
56	J. W. Williams	Flatt	600			600
57	D. B. King	Marietta	600			600
58	Chas. Taylor	Avon	600			600
59	Joseph Bartley	Canton	600			600
60	W. M. Robb & Son	Norris	575			575
61	Geo. Smear	Fairview		520		520
62	W. M. Lee	Ipava		500		500
63	C. W. Dair	Banner	500			500
64	W. M. Morris	Norris	500			500
65	H. H. Muir	Fairview	500			500
66	Guy Muchaft	Flatt	500			500
67	M. J. Johnson	Canton	500			500
68	Frank Kruzann	Ipava	450			450
69	N. C. Morgan	Cuba	440			440
70	French & Hedge	Breeds		400	35	435
71	J. R. Lingenfelter	Canton		420		420
72	Edward Stanley	Maple Mills		410		410
73	G. A. Brush	Marietta	400			400
74	Lewis Clark	Lewisto'n, R. R.	400			400
75	J. H. Fouts	Maple Mills		400		400
76	Furnace & Dimond	Astoria		398		398
77	Chas. Cole	Avon, R. R.		350		350
78	L. Crusan	Lewisto'n, R. R.	350			350
79	B. R. Kelley	Cuba	350			350
80	R. C. Green	Ipava		350		350
81	Will Martin	Cuba	350			350
82	Sylvester Wade	Canton		320		320
83	Eric Emanuelson	Maple Mills		300		300
84	Geo. Carrison	Ipava		300		300
85	J. H. Pollett	Cuba, R. R.	300			300
86	Dan Bollinger	do.	300			300
87	Johnson & Lee	Breeds		300		300
88	Harry Ellsworth	Lewistown	300			300
89	M. R. Parks	Glasford, R. R.	300			300
90	Will Hubble	Avon		300		300
91	Wm. Martin	Cuba	300			300
92	James Conn	Ipava	250			250

Fourth District—Continued.

[illegible]

Fulton County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
LOCAL MINES— <i>Concluded.</i>						
93	Frank Foutch.....	Astoria, R. R.....	250	250		250
94	H. A. Wilson.....	Cuba, R. R.....	250			250
95	Martin Smith.....	Marietta.....	250			250
96	Herbert Wilcoxon.....	Lewistown.....	250			250
97	J. R. Collins.....	Lewisto'n,R.R.....	250			250
98	W. E. Hornbeck.....	Rapatee, R. R.....	200			200
99	Betner & Kingsley.....	Glasford.....	200			200
100	E. E. Post.....	Cuba.....		180		180
101	Dan Weise.....	Ipava.....	175			175
102	J. D. Chute.....	Cuba.....		160		160
103	W. M. Moustard.....	Cuba, R. R.....	150			150
104	Sim Johnson.....	Lewistown.....	150			150
105	John Dicks.....	Canton.....	150			150
106	John Ratchiff.....	Astoria.....		125		125
107	John Hall.....	Canton, R. R. S.....		120		120
108	B. F. Gaskell.....	do.....		110		110
109	D. P. Row.....	Table Grove.....	100			100
110	Cap Nemlin.....	Breeds.....	100			100
111	J. R. Goodman.....	Lewistown.....	100			100
112	Printis Weaver.....	Avon.....	50			50
113	Clifford McFarland.....	Lewistown.....	10	5		30
Total.....			56,075	45,310		103,415
Total all mines.....			341,106	800,409	610,141	2,437,173

Mines reported for 1911, 95.

New mines, 78.

Abandoned mines, 40.

Mines in 1912, 133.

Hancock County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
LOCAL MINES.						
1	Meredith Bros.....	Augusta.....		2,920		2,920

Mines reported for 1911, 3.

Abandoned mines, 2.

Mines in 1912, 1.

Fourth District—Concluded.

Disposition of output.		Keeps of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Accidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
250	10	75	2		2	250								93
250	12	50	1		1	250								94
250		100	2		2	250								95
250	12	125	1		1	250								96
250	12	125	1	1	2	250								97
200	8	75	1	1	2	200								98
200	13	56	2		2	200								99
180	8	50	2		2	180								100
175	7	50	2		2	175								101
160	6	60	1		1	160								102
150	6	75	1		1	150								103
150	6	100	2		2	150								104
150	6	50	1		1	150								105
125	6	60	2	1	3	125								106
120	4	80	1		1	120								107
110	4	40	2		2	110								108
100	4	25	1		1	100								109
100	4	25	2		2	100								110
100	5	50	1		1	100								111
50	2	30	1	1	2	50								112
29	1	30	1	1	2	30								113
103, 415	5, 156	141	315	53	368	103, 415		1	1					
2, 220, 140	217, 033	120, 735	148	2, 522	1, 386	3, 908	2, 041, 640	395, 533	6	5		8	322	

Fourth District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Ac- cidents.		Blasting coal—from solid or undercut or both.	Number of animals under ground.	
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.
.....	2,920	.....	210	6	1	7	2,920	.....	.....	.....	.....	.....	1

McDonough County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
LOCAL MINES.						
1	Colchester Coal Co.	Colchester	3,035			3,035
2	C. F. Sweeney.	Vermont.		2,400		2,400
3	P. M. Jennings.	Industry.		1,562		1,562
4	John Wilson.	Colchester.		1,546		1,546
5	W. R. Hainlim.	Blandinsville.		1,440		1,440
6	Edward Zinn.	Industry.		1,210		1,210
7	Hocker & Barrett.	Colchester.		800		800
8	A. L. Fleming.	do.		800		800
9	Wm. Whalen.	do.		720		720
10	Wilson & Son.	Blandinsville.		640		640
11	Wayland Bros.	Colchester.		620		620
12	Frank Burdick.	Industry.		560		560
13	W. H. Robinson.	Colchester.		520		520
14	Sam Oldham.	do.		520		520
15	Willis Lee Stoneking.	Birmingham.		520		520
16	J. O. Thompson.	Macomb.		410		410
17	S. K. Walters.	Vermont.		400		400
18	Lem Williams.	Colchester.		400		400
19	Bunt Bros.	do.		400		400
20	Kipling, Foster & Stone.	do.		396		396
21	Harpe & Fenton.	do.		375		375
22	M. McClure.	do.		360		360
23	Eli Hillard.	do.	240	110		350
24	J. L. Willey.	Macomb.		320		320
25	Henry Finch.	do.		310		310
26	G. E. Dickson.	Colchester.		280		280
27	Elmer Swanson.	do.		280		280
28	James Wilson.	do.		271		271
29	C. M. Icenogle.	Macomb.		250		250
30	Fred Curtis.	do.		250		250
31	Chas. Norris.	do.		250		250
32	Burney & Fox.	Colchester.		240		240
33	Amos Atkinson.	do.		210		210
34	Frank Murray.	do.		185		185
35	Frank Vogles.	Birmingham.		168		168
36	Oscar Swansen.	Colchester.		150		150
37	Curry Teel.	Macomb.		140		140
38	C. E. Waddell.	Tennessee.		100		100
39	Thomas Kipling.	Colchester.		88		88
40	Fox Bros.	do.		76		76
41	C. C. Tone.	do.		60		60
Total—41 mines.			3,275	20,337		23,612

Mines reported for 1911, 37.

New mines, 17.

Abandoned mines, 13.

Mines in 1912, 41.

Fourth District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Accidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
.....	3,035	.....	220	10	2	12	3,035	.....	1	.....	.....	.....	.....	1
.....	2,400	.....	120	5	1	6	2,400	.....	.....	.....	.....	.....	.....	2
.....	1,562	.....	210	4	2	6	1,562	.....	.....	.....	.....	.....	.....	3
.....	1,546	.....	130	7	.....	7	1,546	.....	.....	.....	.....	.....	.....	4
.....	1,440	.....	140	6	1	7	1,440	.....	.....	.....	.....	.....	.....	5
.....	1,210	.....	240	5	1	6	1,210	.....	.....	.....	.....	.....	.....	6
.....	800	.....	300	3	.....	3	800	.....	.....	.....	.....	.....	.....	7
.....	800	.....	120	5	1	6	800	.....	.....	.....	.....	.....	.....	8
.....	720	.....	120	3	.....	3	720	.....	.....	.....	.....	.....	.....	9
.....	640	.....	250	4	1	5	640	.....	.....	.....	.....	.....	.....	10
.....	620	.....	210	3	.....	3	620	.....	.....	.....	.....	.....	.....	11
.....	560	32	150	4	1	5	560	.....	.....	.....	.....	.....	.....	12
.....	520	.....	80	4	1	5	520	.....	.....	.....	.....	.....	.....	13
.....	520	.....	110	4	1	5	520	.....	.....	.....	.....	.....	.....	14
.....	520	.....	120	3	.....	3	520	.....	.....	.....	.....	.....	.....	15
.....	410	.....	120	3	.....	3	410	.....	.....	.....	.....	.....	.....	16
.....	400	.....	170	2	.....	2	400	.....	.....	.....	.....	.....	.....	17
.....	400	.....	180	1	.....	1	400	.....	.....	.....	.....	.....	.....	18
.....	400	.....	100	3	.....	3	400	.....	.....	.....	.....	.....	.....	19
.....	396	.....	92	10	.....	10	396	.....	.....	.....	.....	.....	.....	20
.....	375	.....	200	2	.....	2	375	.....	.....	.....	.....	.....	.....	21
.....	360	.....	100	2	1	3	360	.....	.....	.....	.....	.....	.....	22
.....	350	.....	175	2	.....	2	350	.....	.....	.....	.....	.....	.....	23
.....	320	6	110	2	.....	2	320	.....	.....	.....	.....	.....	.....	24
.....	310	.....	105	2	.....	2	310	.....	.....	.....	.....	.....	.....	25
.....	280	.....	100	3	.....	3	280	.....	.....	.....	.....	.....	.....	26
.....	280	.....	180	1	.....	1	280	.....	.....	.....	.....	.....	.....	27
.....	271	.....	220	1	1	2	271	.....	.....	.....	.....	.....	.....	28
.....	250	8	120	6	.....	6	250	.....	.....	.....	.....	.....	.....	29
.....	250	.....	80	2	.....	2	250	.....	.....	.....	.....	.....	.....	30
.....	250	1	120	3	.....	3	250	.....	.....	.....	.....	.....	.....	31
.....	240	.....	150	2	.....	2	240	.....	.....	.....	.....	.....	.....	32
.....	210	.....	70	2	.....	2	210	.....	.....	.....	.....	.....	.....	33
.....	185	.....	100	1	.....	1	185	.....	.....	.....	.....	.....	.....	34
.....	168	.....	90	1	.....	1	168	.....	.....	.....	.....	.....	.....	35
.....	150	.....	110	1	1	2	150	.....	.....	.....	.....	.....	.....	36
.....	140	3	100	1	.....	1	140	.....	.....	.....	.....	.....	.....	37
.....	100	.....	20	3	.....	3	100	.....	.....	.....	.....	.....	.....	38
.....	88	.....	50	2	.....	2	88	.....	.....	.....	.....	.....	.....	39
.....	76	.....	62	2	.....	2	76	.....	.....	.....	.....	.....	.....	40
.....	60	.....	40	2	.....	2	60	.....	.....	.....	.....	.....	.....	41
.....	23,612	50	134	132	15	147	23,612	.....	1	.....	.....	.....	.....	.....

Morgan County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
LOCAL MINES						
1	Fisher Bros.....	Murrayville....	1,085	.....	.....	1,085

Mines reported for 1911, 1.
Mines in 1912, 1.

Schuyler County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
LOCAL MINES.						
1	Joe Thompson.....	Rushville.....	2,126.....	.....	.....	2,126.....
2	E. R. Lauery.....	Sheldon Grove.....	300.....	.....	.....	300.....
3	John Brauman.....	do.....	200.....	.....	.....	200.....
4	A. L. Reed.....	do.....	110.....	.....	.....	110.....
Total—4 mines.....			2,736.....	.....	.....	2,736.....

Mines reported for 1911, 2.
New mines, 2.
Mines in 1912, 4.

Fourth District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Accidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
.....	1,085	.....	196	6	2	8	1,085	.....	.....	.....	.....	.....	.....	1

Fourth District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Accidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
.....	2,126	150	210	4	1	5	2,126	.....	.....	.....	.....	.....	.....	1
.....	300	6	175	1	.....	1	300	.....	.....	.....	.....	.....	.....	2
.....	200	.....	80	2	.....	2	200	.....	.....	.....	.....	.....	.....	3
.....	110	.....	52	2	.....	2	110	.....	.....	.....	.....	.....	.....	4
.....	2,736	156	129	9	1	10	2,736	.....	.....	.....	.....	.....	.....

Scott County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
LOCAL MINES.						
1	McLaughlin Coal Co.	Alsey	1,080	.....	.....	1,080
2	J. & J. Hempworth.....	do .....	.....	920	.....	920
3	George Northrop.....	do .....	.....	620	.....	620
4	J. A. Jones.....	Winchester.....	.....	620	.....	620
5	Pat McGuire.....	Alsey.....	.....	310	.....	310
6	Geo. Sellars.....	Winchester.....	.....	210	.....	210
Total—6 mines.....			1,080	2,680	.....	3,760

Mines reported for 1911, 11.

Abandoned mines, 5.

Mines in 1912, 6.

Shipping mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons.						Total.	Disposition of cut-put—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
Fulton.....	20	285,031	755,099	610,141	50,333	590,382	42,772	2,333,758	2,220,140	113,618

Fourth District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Accidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
.....	1,080	.....	192	3	1	4	1,080	.....	.....	.....	.....	.....	.....	1
.....	920	.....	160	2	.....	2	920	.....	.....	.....	.....	.....	.....	2
.....	620	.....	200	3	.....	3	620	.....	.....	.....	.....	.....	.....	3
.....	620	.....	172	2	.....	2	620	.....	.....	.....	.....	.....	.....	4
.....	310	.....	180	2	.....	2	310	.....	.....	.....	.....	.....	.....	5
.....	210	.....	120	2	.....	2	210	.....	.....	.....	.....	.....	.....	6
.....	3,760	.....	171	14	1	15	3,760	.....	.....	.....	.....	.....	.....

counties—Fourth District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees.					Tons mined.		Blasting coal.		
		Underground.				Total.	By hand.	By machine.	From solid—tons.	Undercut—tons.	Both methods—tons.
		Miners.	Others.	Boys.	All above ground.						
115,579	183	2,207	1,016	42	275	3,540	1,938,225	395,533	1,823,234	.....	510,524

Local mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons.						Total.	Disposition of out-put—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
Fulton.....	113	56,075	45,310	.....	.....	.....	2,030	103,415	.....	103,415
Hancock.....	1	.....	2,920	.....	.....	.....	.....	2,920	.....	2,920
McDonough...	41	3,275	20,337	.....	.....	.....	.....	23,612	.....	23,612
Morgan.....	1	1,085	.....	.....	.....	.....	.....	1,085	.....	1,085
Schuyler.....	4	2,736	.....	.....	.....	.....	.....	2,736	.....	2,736
Scott.....	6	1,080	2,680	.....	.....	.....	.....	3,760	.....	3,760
Total.....	166	64,251	71,247	.....	.....	.....	2,030	137,528	.....	137,528
The District...	186	349,282	826,346	610,141	50,333	590,382	44,802	2,471,286	2,220,140	251,146

Whole number of mines reported for 1911, 149.

Number of new mines opened during the year, 97.

Number of mines abandoned during the year, 60.

Whole number of mines reported for 1912, 186.

All mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons.						Total.	Disposition of out-put—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
Fulton... ..	133	341,106	800,409	610,141	50,333	590,382	44,802	2,437,173	2,220,140	217,033
Hancock.....	1	.....	2,920	.....	.....	.....	.....	2,920	.....	2,920
McDonough...	41	3,275	20,337	.....	.....	.....	.....	23,612	.....	23,612
Morgan.....	1	1,085	.....	.....	.....	.....	.....	1,085	.....	1,085
Schuyler.....	4	2,736	.....	.....	.....	.....	.....	2,736	.....	2,736
Scott.....	6	1,080	2,680	.....	.....	.....	.....	3,760	.....	3,760
Total.....	186	349,282	826,346	610,141	50,333	590,382	44,802	2,471,286	2,220,140	251,146

ccunties—Fourth District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees.					Tons mined.		Blasting coal.		
		Underground.			All above ground.	Total.	By hand.	By machine.	From solid—tons.	Undercut—tons.	Both methods—tons.
		Miners.	Others.	Boys.							
5,156	141	315	.....	.....	53	368	103,415	.....	.....	.....	.....
.....	210	6	.....	.....	1	7	2,920	.....	.....	.....	.....
50	134	132	.....	.....	15	147	23,612	.....	.....	.....	.....
.....	196	6	.....	.....	2	8	1,085	.....	.....	.....	.....
156	129	9	.....	.....	1	10	2,736	.....	.....	.....	.....
.....	171	14	.....	.....	1	15	3,760	.....	.....	.....	.....
5,362	141	482	.....	.....	73	555	137,528	.....	.....	.....	.....
120,941	146	2,689	1,016	42	348	4,095	2,075,753	395,533	.....	.....	.....

ccunties—Fourth District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees.					Tons mined.		Blasting coal.		
		Underground.			All above ground.	Total.	By hand.	By machine.	From solid—tons.	Undercut—tons.	Both methods—tons.
		Miners.	Others.	Boys.							
120,735	148	2,522	1,016	42	328	3,908	2,041,640	395,533	.....	.....	.....
.....	210	6	.....	.....	1	7	2,920	.....	.....	.....	.....
50	134	132	.....	.....	15	147	23,612	.....	.....	.....	.....
.....	196	6	.....	.....	2	8	1,085	.....	.....	.....	.....
156	129	9	.....	.....	1	10	2,736	.....	.....	.....	.....
.....	171	14	.....	.....	1	15	3,760	.....	.....	.....	.....
120,941	146	2,689	1,016	42	348	4,095	2,075,753	395,533	.....	.....	.....

FIFTH INSPECTION DISTRICT—1912.

ANNUAL REPORT.

Counties—Christian, Macon, Moultrie, Shelby, Vermilion.

W. S. BURRIS, *Inspector*, Danville.

Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield:

SIR—Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing counties of Christian, Macon, Moultrie, Shelby and Vermilion.

SUMMARY OF THE ITEMS SHOWN IN THE REPORT.

Number of counties producing coal	5
Number of shipping mines	34
Number of local mines	37
Number of new or reopened mines	14
Number of closed or abandoned mines	10
Number of miners	4,337
Others underground, men	1,994
Boys underground	121
Boys above ground	4
Others above ground	562
Total number of employees	7,018
Total tons of coal produced	5,174,966
Days of active operation, all mines	178
Kegs of powder used for blasting coal	157,000
Tons of coal shipped	4,397,168
Tons supplied to locomotives	71,712
Tons sold to local trade	471,537
Tons consumed and wasted at the mines	234,549
Number of fatal accidents	21
Number of non-fatal accidents	92
Number of employees to each fatal accident	334
Number of employees to each non-fatal accident	76
Tons of coal produced to each fatal accident	246,427
Tons of coal produced to each non-fatal accident	56,250
Ratio of fatal accidents per 1,000 employees	2.99

The table gives the total tonnage by counties for the years 1911 and 1912, with the increase or decrease in each county:

Counties.	Total output—tons.		Increase.	Decrease.
	1911.	1912.		
Christian.....	1,206,467	1,346,191	139,724	.....
Macon.....	255,764	271,626	15,862	.....
Moultrie.....	11,573	54,162	42,589	.....
Shelby.....	92,281	128,544	36,263	.....
Vermilion.....	3,270,380	3,374,443	104,063	.....
Total.....	4,836,465	5,174,966	338,501	.....
Net increase.....	.....	.....	338,501	.....

NEW MINES.

The Mission Mining Company has opened a new mine adjoining the strip pit. This mine is known as No. 2, is a drift, and the coal is handled over the tippie of the No. 1 mine. The company has also sunk another slope, known as No. 3. This mine is fireproof, having concrete walls on side of entry, 6 in. x 12 in. steel beams, placed four feet apart, and between beams, concrete. This includes the slope and cage room. They have an electric hoist, pulling one car up the incline and dumping into Shaker screen where the coal is graded as follows: Six inch lump, two inch lump, from six to two inch egg, two inch and one inch screenings, two and one inch nut. The electric power is furnished by the Danville Electric Light Company.

In addition to the above one shipping and eleven locals are reported this year as new mines.

ABANDONED MINES.

The Tilton Coal Company, Tilton, Vermillion County, abandoned its Star mine. The Oakwood Coal Company, Oakwood, has abandoned its No. 1 mine for the present time. This mine may be reopened in the future. Two other shipping and six local mines have been abandoned, or not operated during the year.

IMPROVEMENTS IN MINES.

The Assumption Coal Mining Company, Assumption, Christian Co., has made some good and permanent improvements.

The bottom of the main or hoisting shaft has been timbered with steel I-beams 6x15 inches, from 14 to 18 feet in length, twenty feet on each side of shaft, doing away with any timbers or center props, leaving a clear way on each side of shaft eighteen feet.

There has been installed a new Deming Triplex electric driven pump for raising water to the surface, a distance of 1,000 feet. The motor driving the pump is a continuous generator, compound wound, with a speed of 800 revolutions per minute.

The escape shaft is equipped with a pair of Litchfield hoisting engines, twin connected, cylinder 18 inches bore, 24 inches stroke and two drives 4 feet in diameter, 2 feet by 4 inches face, with flanges 7 inches high to hoist 1,000 feet, with three layers of $\frac{7}{8}$ wire rope. One drive keyed to shaft and the other loose on the shaft being engaged by a toothed clutch so as to be thrown out of gear when desired for changing the effective length of rope for hoisting to or from different levels. Each drive has a break housing turned smooth in boring mill. The shifting arrangement for the toothed clutch consists of a hand lever similar to the reversing lever, acting on a notched quadrant. Everything connected with these engines are first-class in every particular.

The engine room at escape is fireproof except the roof. The escape shaft has been retimbered with 6x8 timbers for a distance of 25 feet from top. Surface arrangements have been remodeled along the line of safety and convenience, making it possible to hoist men if necessary without interfering with the ventilation while hoisting them. This we think is very important in a gaseous mine.

There have been quite a lot of improvements made on the bottom of the escape shaft. Thus we think this mine is the best equipped at the escape shaft for getting men to the surface of any mine in Christian county, and, perhaps, in the State.

The Christian County Coal Company has made considerable improvements. The most important among them is a new Sirocca fan. The fan is 7 feet long and has 64 blades 70 inches long. It is run by a new Ridgway engine, cylinder 13 inches, length of stroke 14 inches. Under good conditions at 225 revolutions it will produce 125,000 cubic feet of air per minute.

The fan and engine have proved very satisfactory to the management. The air at the present time in this mine is good. The fan house is of concrete, making it fireproof. There has been added forty new pit cars, and new coal bins have been constructed.

The Stonington Coal Company has also made improvements. The management put in a new Sirocco fan, about the same size as the Christian County Coal Company's, with a Ridgway engine, which gives plenty of air for the mine and has proved satisfactory to the management; also installed one Tubular Brownell boiler, a new generator, about forty pit cars and a new Goodman motor. There have been some needed improvements below ground.

Taking it all in all we feel, that, while the improvements in Christian County may not have been so marked as in some other counties, they have been along a line much needed and will be permanent.

IMPROVEMENTS AT BUNSEN COAL COMPANY'S MINES DURING YEAR ENDING JUNE 30, 1912.

KELLEY NO. 2.

Installation of 12 chain mining machines completed.

Work of installing 1 150 H. P. Tubular boiler and 100,000 cu. ft. capacity ventilating fan with engine begun.

Eighty wood mine cars purchased.

Shaker screens were replaced with set of gravity screens.

Engine house remodeled.

An outside rock hoist and trestle built.

KELLEY NO. 3.

Installation of 9 chain mining machines, begun in 1911, completed this year.

Fifty wood mine cars purchased.

Outside rock hoist and trestle put up.

Installation begun of 1 72 in. x 18 in. Tubular boiler.

KELLEY NO. 4.

Shaft bottom extended.

Cage room retimbered.

Fireproof pump room built.

Work begun on installation of 1 72 in. x 18 in. Tubular boiler.

One 75 K. W. generator with engine, and extension to boiler house.

Gravity screens put in to replace shaker screens formerly used.

One hundred wood mine cars bought.

Large amount of haulage extension and improvement.

One outside rock hoist and trestle built.

One 60-gallon double chemical fire engine purchased.

VERMILION.

Completed installation of 17 chain mining machines.

Put down a 9 in. x 14 in. concrete escapement and air shaft.

Installed two self-dumping Olsen cages.

Changed screens from shaker to gravity type.

Built outside rock hoist and trestle.

Built concrete powder house.

Purchased one 60-gallon double chemical fire engine.

FIREPROOF ESCAPEMENT SHAFT AND UPCAIST AIRWAY AT THE VERMILION MINE
OF THE BUNSEN COAL CO., NEAR WESTVILLE.

The Bunsen Coal Co., of Westville, Ill., a subsidiary of the United States Steel Corporation, broke ground on Oct. 5, 1911, for the construction of a concrete lined shaft combining an escapeway for the men and an upcast airway for ventilating purposes. The Vermilion mine has a daily output of 2,750 tons. The development at the present time comprises about 500 acres of the Grape Creek coal seam. The point chosen for the shaft location is 3,500 feet from the hoisting shaft. Departing from the ordinary procedure of contracting the work and in order to obtain the experience during construction, the company purchased all equipment necessary and completed the work with their own force. Work was stopped during the winter months and started again in April, 1912. The shaft lining walls being completed on June 1. The method of sinking and design adopted combine the new features of a rectangular shaft of concrete and the sinking of same through the soft stratas by means of a steel shoe and the weight of the concrete lining walls.

DESCRIPTION OF SHAFT.

The shaft is of rectangular design and measures 8 feet in width by 13 feet in length in the clear between the concrete lining walls. The concrete walls have a thickness of 21 inches from the top of coping to steel shoe, a distance of 52 feet. From this point to the bottom of shaft the walls have an average thickness of 12 inches. The total depth of shaft is 205 feet to the archway landings at the bottom. A sump with a depth of 3 feet and 6 inches is provided. The shaft has an opening area of 104 square feet. The steel stairway and landings occupy a width of 4 feet and 10 inches and extends the length of the shaft. The pattern is of open design and only a small percentage of the space taken up would effect the ventilation and upcast which goes through the stairway.

Two reenforced concrete archways are provided at the shaft bottom, one for the upcast air from the mine and the other from entrance to the stairway. Each arch has a span of 7 feet and a height of 9 feet from landing to the top of crown, both arches extend a distance of 6 feet from the shaft lining. The sump is floored over and supported on 3-inch I-beams.

The steel shoe for the sinking of shaft, from the surface of ground to the solid strata, is of rectangular design, forming an open caisson, and measured when set up ready for sinking 11 feet 6 inches by 16 feet 6 inches. The side and end plates are one-half inch thick.

The shoe before riveting together comprised six sections and were connected up with $\frac{1}{2}$ inch by 12 inch by 26 inch splice plates thoroughly riveted. The rivet heads were all countersunk on the back of shoe to lessen the friction when sinking. The four rectangular corners were all stiffened with the same size plates. The shoe has a vertical depth on the back line of the lining of 26 inches, and run on an angle of 45 degrees from the cutting edge to the inner side of the lining at top of shoe. The two side pieces between splice connections are each 10 feet long and the four corner sections measure each 5 feet 9 inches on the end and 3 feet 3 inches on the side. The opening at top of shoe provides for a concrete lining wall 15 inches thick. The side and end plates at the top between the splice connections are all stiffened with 3 inch by 3 inch by $\frac{1}{2}$ inch angles. To prevent the top from buckling or spreading, 1 inch by 15 inch bolts are placed every 3 feet around the entire shoe, and have countersunk heads on the back. Between the horizontal bolts and extending around the entire shoe and spaced 3 feet apart, 1 inch diameter by 6 feet in length vertical rods were used to tie in the shoe to the first section of concrete lining, the top of these rods were bent in U form to receive similar rods which were placed as each section of lining wall was poured and extended to the top of coping. The shoe when completed had a total weight of 7,000 pounds.

Wooden forms were used for all of the concrete lining work and were made up of 2 inch by 10 inch surfaced plank carefully put together and stiffened vertically with 4 inch by 6 inch strips. The forms were 6 feet high, two side and two end pieces formed the units for the entire section. An inside and outside form was necessary for the placing of the concrete until the shoe was landed on solid strata. These forms remained in position at the top of the shaft until this portion of the work was completed. To readily release the concrete when set and remove the forms when necessary, all of the connecting joints had beveled edges and were brought into position by wedging. The sides and ends were well braced to hold in the correct position.

From the shoe to the shaft bottom an inside form only was necessary, the concrete filling into the sides of the rock excavation or against the 2-inch curbing timbers. No forms were removed from the concrete until it had set for at least two days.

The steel stairway is of zig-zag pattern and together with the landings occupy a space longitudinally in the shaft for a width of 4 feet 10 inches. Each flight rises on a 38° angle from the vertical, and is 11 feet long. The separate flights including the landings are supported on 8 inch channels weighing 11¼ pounds per foot; placed crosswise in the shaft and are secured in the concrete side walls by placing in pockets and grouting the ends which have a bearing of 6 inches in the wall. These channels are placed 2 feet from the end walls and are spaced vertically 6 feet apart, alternating for each flight.

The stair stringers are ¼ inch by 7 inches deep. The treads are ¼ inch by 11 inches by 27 inches with checkered surfaces and are supported on 1½ inch by ¼ inch angles riveted to the stringers. The rise between treads is 8 inches. The landing plates are 4 inches by 25 inches by 58 inches and are also checkered on the surface. Three lugs of 3½ inch by 5 inch by ¾ inch angle iron are riveted to the plate and fastened to the concrete wall by means of 5/8 inch by 5 inch expansion bolts well drawn up. The hand railing is made up of two lines of 1½ inch pipe, the uprights are bolted to the stair stringers and connected to each line of railing. The total weight per vertical foot of stairway and landings, not including the channel supports, is 95 lbs.

Before placing any steel work two coats of paint was applied on the surface and another coat in the shaft upon completion of the work.

The cutting of the pocket holes in the concrete and the drilling of same for the bolt holes was all done by hand. The men erecting temporary scaffolds as each flight was placed, working from the bottom upwards. This stairway is very easy for the men to walk on and is of economical design, making the shaft absolutely fireproof.

For sinking work, the use of a steel shoe to penetrate the soft stratas was used and carried the concrete caisson from the surface of ground to a point 52 feet below the top of coping.

To give the shoe a good start excavation was first made giving ample clearance for a depth of 3 feet when the forms were placed in position at the surface and the first section of concrete lining wall poured to a depth of 6 feet.

Mucking was then started and as the sides of the excavation were cleared the weight of the concrete started the cutting edge and penetration of the shoe, until sufficient depth was made for the placing of another 6 foot section of concrete wall. This same process was repeated until shoe and concrete walls were landed on the solid strata at a depth of 52 feet from top of coping. For this depth the walls were 21 inches thick and the entire section sunk by the weight of the concrete through the surface soil, sand, gravel and clay stratas. To tie together each vertical 6 foot section of concrete lining wall 1 inch diameter by 6 foot rods were placed around the entire section and spaced 3 feet apart. The concrete mix was composed of one part "Universal Portland cement," 2 parts sand and 5 parts gravel. For the closing in sections an extra bag of cement was added to each batch. The concrete was mixed in a cubical mixer located near the top of shaft, poured into buckets, lowered and the mix distributed in the several forms

by means of a movable chute supported on a temporary platform at the top of each section in the shaft. No supporting buntons for the side walls were used in this shaft.

From shoe to the shaft bottom the usual method of sinking was employed, namely, drilling and shooting the sump holes and benches, carrying down the excavation as far as possible to permit the placing of from 20 to 60 feet of concrete lining wall, when the sinking and concreting process was repeated.

When soft stratas and fire clay seams were encountered in the excavation, 2 inch by 10 inch curbing timbers were placed to protect the sides from caving and protection to the men.

When the shoe was landed, several cracks appeared in the concrete walls mainly due to the pressure exerted by the weight of the concrete not settling evenly, at times one end was much higher than the other, when mucking at the lower end had to be stopped and continued at the high end until both came to the same level. When shoe was landed the shaft section for a depth of 52 feet was found to be about 9 inches out of plumb, this was equalized and the cracks grouted by placing a concrete veneer over the entire top section; the concrete was adhered to the original walls by the use of $\frac{3}{4}$ inch lag screws staggered every 3 feet and firmly placed in the original concrete, making a good appearing and efficient job when the work was completed. The advantage of sinking by this method, through soft ground, over that of using curbing timber and jacking the shoe down by hand, was not only in progress, but also the saving in cost by eliminating any heavy timber that might be necessary, and pouring the concrete for the heavier wall sections and erecting the forms on the surface. Very little water was met with during the work and little trouble was experienced taking care of it. During the sinking and concreting work two 8-hour shifts were employed consisting of seven men on each shift. One shift only was used of five men when the stairway was erected.

The equipment consisted of a straight mast derrick with swinging gear attachment and a 50-foot boom handling all of the muck and conveying the concrete. One double drum hoisting engine size of cylinders $6\frac{1}{2}$ inch by 10 inch; attached to the engine was a 20 H. P. vertical boiler; one 50 H. P. portable five-tube boiler; one duplex feed water pump, size 6 inch by 4 inch by 6 inch; two side dump trucks; two dump buckets each of one cubic yard capacity and one cubical concrete mixer with engine attached was used. The mixer had $\frac{1}{2}$ cubic yard capacity. Electric lights for the work were furnished from the Vermilion mine generator and water for boiler use was pumped from the same place.

MINE FIRES.

About the 7th of August, 1911, a fire was discovered in the abandoned works of the Christian County Coal Company's mine. The old works where the fire originated had been mined by machines and was caused by spontaneous combustion.

The fire was so far away from the works that it could not be controlled, it being impossible to get to the fire with sufficient water to put it out.

The mine rescue car spent two or three days at the mine, but conditions were such that the thought of putting out the fire with water was abandoned. The closest place of the fire to the workings of the mine is 600 feet.

The fire is walled in with forty-eight brick and concrete stoppings and up to the present time there has been no indication that the fire is still burning.

FATAL ACCIDENTS.

The past year shows a decrease in the number of fatal accidents and an increase of a third of a million tons of coal and I claim this is due to the system of management that some of the mines have adopted in Vermilion County.

The Bunsen Coal Company, under the management of Mr. Thomas Moses, as superintendent, was not satisfied with the old system of mine managers and assistants so they blocked the mines into from two to five sections and put face boss, or section boss, over sections and he makes the allotted territory from one to two times per day. If the face boss comes into a place where the miner is in need of timbers, he stays there till they are put up and if the miner refuses to place props as directed by the face boss, he is discharged and the officers of the Miners' organization do not have any sympathy for a miner who will not make his place safe for his own protection.

July 6, 1911, Joseph Dean, miner, aged 18 years, single, employed by Dering Coal Company, at mine No. 2, Westville, Vermilion County, was working with his father, loading a car of coal, when a rock fell, killing him instantly.

July 14, 1911, George Meno, miner, aged 32 years, single, employed by Danville Collieries Company, Catlin, Vermilion County, was loading a car of coal when a rock 7 feet long, 4 feet wide, and 6 inches thick fell, killing him instantly.

July 19, 1911, Oscar Felice, miner, aged 26 years, married, employed by Bunsen Coal Company at mine No. 2, Westville, Vermilion County, was pulling down a loose rock when a side rock fell on him injuring him, from which injuries he died July 29, 1911, at St. Elizabeth's Hospital, Danville. He leaves a widow and two children.

July 27, 1911, Martin Baretto, miner, aged 37 years, married, employed by the Bunsen Coal Company at mine No. 4, Westville, Vermilion County, had gone back to his box for his drilling machine, when a large pot rock weighing about 3,000 lbs. tipped a cross bar and fell on him. He died August 6, 1911. He leaves a widow and four children.

September 14, 1911, Ben Bell, miner, aged 22 years, married, employed by the Bunsen Coal Company at mine No. 2, Westville, Vermilion County, was killed by a fall of rock. He leaves a widow.

September 21, 1911, Anthony Buskosky, driver, aged 28 years, single, employed by Dering Coal Company, at mine No. 2, Westville, Vermilion County, was standing on a parting waiting for another driver to uncouple a car for him when a rock fell on his head and shoulders, knocking him down on edge of car, injuring him internally, from which he died one hour later.

September 21, 1911, William G. Leonard, miner, aged 47 years, married, employed by Manufacturers' and Consumers' Coal Company, Decatur, Macon County, was killed by a fall of rock. He had mined under the coal for about three feet to a horse-back running through the coal, when the rock fell, killing him instantly. He leaves a widow and three children.

September 22, 1911, Romlet Romian, miner, aged 49 years, married, employed by Dering Coal Company, mine No. 2, Westville, Vermilion County, was supposed to be taking down loose rock when a mass fell on him, causing internal injuries from which he died. He leaves a widow.

September 29, 1911, John Ratkus, miner, aged 40 years, single, employed by Pana Coal Company, at mine No. 1, Pana, Christian County, was killed by falling coal.

October 9, 1911, John Terrick, miner, aged 25 years, single, employed by Bunsen Coal Company, at mine No. 2, Westville, Vermilion County, was working in a room and had just wedged down a fall of coal. He was stooping over to pick up his wedge when a rock 5 feet 11 inches long, 2 feet 6 inches wide and 6 inches thick, fell on him, killing him instantly.

October 21, 1911, James Foy, driver, aged 25 years, single, employed by Bunsen Coal Company at mine No. 3, Westville, Vermilion County, died from injuries received September 5, 1911. Deceased failed to get off his trip at the parting and was caught between loaded cars.

November 8, 1911, John Joysyo, laborer, aged 28 years, married, employed by Dering Coal Company at mine No. 2, Westville, Vermilion County, fell down the shaft. He leaves a widow and two children.

November 20, 1911, O. C. Tharp, weigh boss, aged 40 years, married, employed by Sharon Coal Company, Georgetown, Vermillion County, fell into the shaft and was killed instantly. He leaves a widow and two children.

November 25, 1911, Philip Pulso, miner, aged 35 years, married, employed by Manufacturers' & Consumers' Coal Company, Decatur, Macon County, died at his home. The company knew nothing of this accident, nor do they believe the man was injured in the mine. Since his death his relatives claim he was injured on the afternoon of November 21, in his working place by falling slate. He said nothing about being injured and continued to work the remainder of that day and the following day. The face boss said he never complained to him of being hurt. He leaves a widow.

January 22, 1912, Pete Chermen, miner, aged 50 years, married, employed by Dering Coal Company at mine No. 3, Steelton, Vermillion County, had started to load a car of coal when a rock weighing 5 tons fell, killing him instantly. He leaves a widow and four children.

February 12, 1912, E. D. Burch, miner, aged 54 years, married, was killed in mine No. 1 of Electric Coal Company, Danville, Vermillion County, by a fall of rock.

February 13, 1912, John Katuchis, miner, aged 42 years, married, employed by Bunsen Coal Company, at mine No. 4, Westville, Vermillion County, was injured by a fall of rock and died June 4, 1912. He leaves a widow and one child.

February 14, 1912, Stanley Poloski, laborer, aged 20 years, single, employed by Bunsen Coal Company, at mine No. 2, Westville, Vermillion County, was killed by falling rock. Deceased and his partner were delivering a truck load of timbers when a slab of rock crushed him, killing him instantly.

February 16, 1912, John Rukus, miner, aged 28 years, single, employed by Fairmount Coal Company, Bennett mine No. 1, Fairmount, Vermillion County, was opening a keg of powder with a pick when the powder exploded. He was severely burned and died in a short time.

May 22, 1912, Frank Sandretto, miner, aged 28 years, single, employed by Dering Coal Company at mine No. 4, Steelton, Vermillion County, was killed by a fall of rock. This man was working alone in the entry and from all appearance he was shoveling coal into his car, when a large rock fell from roof causing his death about twenty minutes later. He was warned of danger of this rock by the assistant mine manager and he and two miners, who were working in the next entry were ordered to take it down or timber it. He said he would timber the rock as soon as he got out coal that was down, but it fell before he got the coal out.

May 24, 1912, John R. Arkley, miner, aged 53 years, married, employed by Dering Coal Company at mine No. 3, Steelton, Vermillion County, was killed by a fall of rock. Deceased was loading out a car of coal when rock fell without any warning. He leaves a widow.

Respectfully submitted,

W. S. BARRIS,

State Inspector of Mines, Fifth District, Danville, Ill.

Fatal Casualties—Fifth District—June 30, 1912.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Single.	Widow.	Children.	Dependents.	Cause of death.
1911.										
July 6	Joseph Dean	18	Miner	Westville	1	1				Falling rock
14	Geo. Meno	32	do	Catlin	1	1	2	3		do
29	Oscar Felice	26	do	Westville	1	1	1	2	3	do
Aug. 6	Martin Baretto	37	do	do	1	1	4	5		do
Sept. 14	Ben Bell	22	do	Kelleyville	1	1	1	1		do
21	Anthony Buskosky	28	Driver	Westville	1	1				do
21	Wm. G. Leonard	47	Miner	Decatur	1	1	3	4		do
22	Romelet Romian	49	do	Westville	1	1	1	1		do
28	John Ratkus	40	do	Pana	1	1				Falling coal
Oct. 9	John Ferrick	25	do	Westville	1	1				Falling rock
21	James Foy	25	Driver	do	1	1				Pit car
Nov. 8	John Joysyo	28	Laborer	do	1	1	2	3		Fell down shaft
19	O. C. Tharp	40	Weighman	Georgetown	1	1	2	3		do
23	Philip Pulso	35	Miner	Decatur	1	1	1	1		Falling slate
1912.										
Jan. 22	Pete Chermen	50	do	Westville	1	1	4	5		Falling rock
Feb. 12	E. D. Burch	54	do	Danville	1	1	6	7		do
14	Stanley Poloski	20	Laborer	Kelleyville	1	1				do
16	John Rukus	28	Miner	Catlin	1	1				Powder explosion
May 22	Frank Sandretto	28	do	Westville	1	1				Falling rock
24	John Askley	53	do	Danville	1	1				do
June 4	John Kochusio	42	do	Westville	1	1	1	2		do
	Total				11	10	11	24	35	

Recapitulation of fatal casualties—Fifth District—1912.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Catlin	2	Drivers	2	Falling coal	1	Bunsen	7
Danville	2	Laborers	2	Falling rock	15	Danville	1
Decatur	2	Miners	16	Falling slate	1	Dering	7
Georgetown	1	Weighman	1	Fell down shaft	2	Electric	1
Kelleyville	2			Pit cars	1	Fairmount	1
Pana	1			Powder explosion	1	Manufacturer & Consumers	2
Westville	11					Pana	1
						Sharon Coal & Brick	1
Total	21		21		21		21

Non-fatal casualties—Fifth District—June 30, 1912.

Date.	Name.	Residence.	Age.	Married.	Single.	Children.	Dependents.	Character of injury and cause of accident.	Time lost—days.
1911.									
July 11	Calvin McCormick	16 Steelton	1	1				Back injured, pit car.	126
18	Martin Galvin	20 Assumption	1	1				Foot injured, pit car.	30
22	James Parker	23 Taylorville	1	1				Leg broken, pit car.	60
25	Louis Nagy	28 Steelton	1	1	1			2 Head injured, falling rock	40
26	Frank Kosmas.	27 Westville	1	1	1			2 Leg injured, falling rock	71
28	August Leroy	52 Danville	1	3				4 Ankle broken, falling rock	45
28	Versino Celestino	33 Westville	1	3				4 Shoulder injured, falling rock	40
29	John Krainock.	17 do.	1	1				Pelvis bone broken, pit car	60
29	Art Cowell.	28 do.	1	1				Arm broken, pit car.	62
Aug. 7	Ed Champion	50 do.	1	5				6 Leg broken, falling rock	91
9	Ballista Prola	44 do.	1	1				1 Foot injured, falling rock	58
26	Joe Footman	20 do.	1	1				Leg broken, pit car.	90
Sept. 2	Frank Seidleicki	21 do.	1	1				do.	40
5	Peter Sensky	20 do.	1	1				do.	42
20	Ross Bute	43 Pana.	1	1				1 Leg broken, falling slate	150
25	Paul Zemont	44 Westville	1	4				5 Fingers broken, pit car	50
27	Lawrence Naylor	31 Danville	1	1	2			2 Arm broken, pit car.	270
27	Mike Garley	39 Westville	1	2				3 Ribs broken, falling rock	49
28	Joe Bowrey	19 Pana.	1	1				Leg broken, fell down.	86
30	George Bartoski	21 Westville	1	1				Leg broken, falling rock	70
Oct. 6	Mike Wravick	43 do.	1	3				4 Ribs broken, falling rock	99
13	John Cornelios.	29 Danville	1	1				Arms burned, hot water	38
19	Homer Evans	23 Hilliary	1	1				Leg broken, pit car	66
21	Steve Ovack	38 Westville	1	3				4 Leg injured, falling rock	30
23	James Jones	21 Taylorville	1	1				Foot injured, mule.	30
24	Mike Selesky	38 Himrod	1	3				4 Finger cut off, axe.	52
25	Ike McCoy	34 Stonington	1	1				Shoulder injured, falling slate.	33
27	Stanley S. Kopen	23 Hilliary	1	1				1 Shoulder broken, pit car.	56
29	James Boyer	50 Danville	1	5				6 Foot injured, pit car.	55
30	Victor Huffmaster	26 Pana.	1	1				Body injured, flying coal	38
31	Paul Valciew	42 Westville	1	1				Face and hands burned, powder explosion	30
Nov. 1	John Finley	21 Decatur	1	1				Body injured, pit car	30
1	George Groogan	34 Stonington	1	1				1 Face and hands burned, gas explosion	38
6	Mac McCorkle	36 Westville	1	1				Foot injured, mule.	35
7	Mike Laschuski	35 Decatur	1	1				1 Face and hands burned, gas explosion	31
8	Martin Cernisas	31 Westville	1	1	2			2 Back injured, falling rock	84
11	Ray Mackenson	25 Danville	1	1	2			2 Head injured, falling rock	30
13	Chas. Simpson	38 Pana.	1	3				4 Foot broken, pit car	33
20	H. Paul	25 Stonington	1	1				Leg injured, pit car	30
21	Fred Rostek	51 Decatur	1	5				6 Arm injured, falling rock	30
22	John Estock	63 Hilliary	1	7				5 Body injured, cage.	42
27	John Higgins	48 Pana.	1	1				Head injured, falling slate	30
29	Elwes Lewis	17 Taylorville	1	1				Body injured, pit car.	30
29	Ferman Haussey	23 Westville	1	1				Pelvis bone broken, pit car	70
Dec. 1	Oscar Gerard	30 do.	1	1				1 Back injured, falling rock	60
5	Jesse Gorden	30 Pana.	1	3				4 Finger broken, falling coal	31
13	Frank Yapsic	42 Assumption	1	6				7 Shoulder injured, falling coal.	64
15	John Magabire	28 Pana.	1	1				Toes broken, pit car	47
16	James Youkil	25 Danville	1	1				Back injured, falling rock	60
19	Wm. Williams	31 do.	1	2				3 Head and back injured, falling rock	165
20	Martin Yaksta	45 Westville	1	4				5 Rib broken, fell down	30
22	Chas. Sackalowski	24 do.	1	1				Body injured, falling rock	90
22	Harry Zane	26 Pana.	1	1				Finger broken, pit car.	30
27	John Chipon	25 Decatur	1	1				1 Leg injured, falling coal.	60
1912.									
Jan. 1	Geo. Anderson	30 Danville	1	1				Collar bone broken, falling rock	30
5	C. Maples	44 Stonington	1	1				1 Legs injured, pit car	30
6	W. E. Anderson	48 Danville	1	3				4 Ribs broken, pit car	30
6	John Gareo	55 Pana.	1	4				1 Head injured, struck coal chute	30
9	Chas. Goodloski	28 Westville	1	1				1 Ribs broken, pit car	56
10	George Borah	50 do.	1	1				1 Leg injured, pit car.	30
Jan. 13	Callime Fomez	35 Danville	1	4				5 Body injured, falling cage	30
13	Joy Dos	40 Hilliary	1	3				4 do.	30
13	Joe Berdnovick	30 do.	1	3				4 do.	60

Non-fatal casualties—Fifth District—Concluded.

Date.	Name.	Residence.	Age.	Married.	Single.	Children.	Dependents.	Character of injury and cause of accident.	Time lost—days.
1912.									
13	Frank Dentrux	35 Danville	1	3	4	Body injured, falling cage	36		
13	D. Schoneous	35 Hilliary	1	1	2	do	30		
13	J. Schoneous	38 do	1	1	2	do	30		
13	Wm. Miller	39 Georgetown	1	1	1	Eye injured, flying coal	30		
16	John Visneski	30 Assumption	1	1	1	Eye injured, flying bark	66		
16	Joe McKinney	38 Pana	1	3	4	Ankle broken, struck by rope	78		
17	Jacob Becker	21 Georgetown	1	1	1	Ribs broken, falling rock	30		
19	Peter Youngsy	37 Westville	1	1	2	Leg broken, falling rock	91		
19	Tony Stackuskis	37 do	1	4	5	Ribs broken, falling rock	42		
20	Melle Murray	40 Pana	1	4	5	Head injured, falling coal	42		
22	Mark Ord	33 Westville	1	1	2	Arm broken, pit car	56		
23	John Zory	65 do	1	4	4	Head injured, falling rock	30		
26	Frank Dagan	50 do	1	1	1	Foot injured, falling rock	30		
27	A. C. Freeman	40 Pana	1	2	3	Eye destroyed, flying coal	80		
31	Stanley Ross	44 Westville	1	5	6	Leg broken, falling rock	130		
Feb. 3	Walter Pinavage	37 do	1	5	6	Back injured, falling rock	40		
14	Isaac Waggle	49 do	1	1	2	Leg broken, falling rock	123		
15	John Rostik	61 Decatur	1	8	5	Head injured, falling coal	60		
29	Ray McReynolds	21 Westville	1	1	1	Head injured, flying coal	60		
Mar. 5	James Dudley	26 do	1	1	1	Eye injured, falling rock	30		
9	Fred Rebe	47 Danville	1	4	5	Pelvis bone broken, falling rock	90		
11	Wm. Barnett	55 Pana	1	4	3	Leg injured, falling rock	30		
13	Andy Miklaski	32 do	1	2	3	Leg injured, falling slate	30		
21	Chas. Skowisuski	45 Decatur	1	7	8	Head injured, falling rock	30		
25	Joe Sasil	25 Danville	1	1	1	Finger cut off, beam	30		
28	Bert Willinson	35 Pana	1	1	2	Leg broken, friction clutch	60		
29	George Rolla	55 do	1	7	1	Body injured, pit car	44		
Apr. 3	Wm. Allison	19 Danville	1	1	1	Head injured, falling slate	30		
May 15	Harry Day	22 Taylorville	1	1	1	Foot injured, pit car	34		
	Total		58	34	151	188			

Number injured	92
Total days lost	5,025
Average days lost	54.62

Recapitulation of non-fatal casualties—Fifth District—1912.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Assumption	3	Cager	1	Axe	1	Assumption	3
Danville	14	Couplers	2	Beam	1	Bunsen	16
Decatur	6	Drivers	20	Cage	7	Christian Co.	4
Georgetown	2	Fireman	1	Falling coal	5	Dering	27
Hilliary	7	Laborers	9	Falling rock	30	Electric	13
Himrod	1	Mine manager	1	Falling slate	5	Mfg. & Consumers	6
Pana	16	Miners	50	Fell down	2	Mission	3
Steelton	2	Motormen	2	Flying bark	1	Pana	9
Stonington	4	Superintendent	1	Flying coal	4	Penwell	7
Taylorville	4	Timbermen	3	Friction clutch	1	Stonington	4
Westville	33	Trappers	2	Gas explosion	2		
				Hot water	1		
				Mule	2		
				Pit cars	27		
				Powder explosion	1		
				Struck by rope	1		
				Struck coal chute	1		
Total	92		92		92		92

Recapitulation of non-fatal casualties, nature of injuries, conjugal relations and time lost—Fifth District—1912.

Nature of injuries.	Number.	Married.	Single.	Children.	Dependents.	Time lost—days.		Percentage of injuries.
						Total.	Average.	
Ankles broken.....	3	3	.....	7	10	393	131.00	3.26
Arms broken.....	2	1	1	1	2	118	59.00	2.17
Arms burned.....	1	.....	1	.....	.....	38	38.00	1.09
Arms injured.....	1	1	.....	5	6	30	30.00	1.09
Backs injured.....	5	3	2	6	9	370	74.00	5.43
Bodies injured.....	12	8	4	29	26	490	40.82	13.04
Collar bone broken.....	1	.....	1	.....	.....	30	30.00	1.09
Eye destroyed.....	1	1	.....	2	3	80	80.00	1.09
Eyes injured.....	3	2	1	.....	2	126	42.00	3.26
Face and hands burned.....	3	2	1	.....	2	99	33.00	3.26
Feet broken.....	1	1	.....	3	4	33	33.00	1.09
Feet injured.....	7	3	4	5	8	272	38.86	7.61
Fingers broken.....	3	2	1	7	9	111	37.00	3.26
Fingers cut off.....	2	1	1	3	4	82	41.00	2.17
Head and back injured.....	1	1	.....	2	3	165	165.00	1.09
Head injured.....	10	6	4	29	27	382	38.20	10.87
Leg broken.....	13	6	7	13	19	1,099	84.54	14.13
Leg injured.....	8	7	1	10	15	311	38.87	8.69
Pelvis bone broken.....	3	1	2	4	5	220	73.33	3.26
Ribs broken.....	7	6	1	16	22	336	48.00	7.61
Shoulder broken.....	1	1	.....	.....	1	56	56.00	1.09
Shoulders injured.....	3	2	1	9	11	137	45.67	3.26
Toes broken.....	1	.....	1	.....	.....	47	47.00	1.09
Total.....	92	58	34	151	188	5,025	54.62	100.00

Christian County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	Christian Co. Coal Co.	Taylorville	286,935	.....	15,343	302,278
2	Springfield Coal Co., No. 6.	do.	19,903	138,763	76,554	235,220
3	Penwell Coal Mining Co., Penwell.	Pana.	53,846	44,339	91,919	190,104
4	Pana Coal Co., No. 1.	do.	34,042	61,257	90,289	185,588
5	Stonington Coal Co.	Stonington	168,510	.....	7,006	175,516
6	Smith-Lohr Coal M. Co., S-L.	Pana.	143	49,751	84,991	134,885
7	Assumption Coal Mining Co.	Assumption .....	.....	338,701	36,564	75,265
8	Pana Coal Co., No. 2.	Pana.	2,704	14,725	24,218	41,647
Total			566,083	347,536	426,884	1,340,503
LOCAL MINE.						
1	C. W. Vandever.	Edinburg. ....	.....	3,000	2,688	5,688
Total—9 mines.			566,083	350,536	429,572	1,346,191

Mines in 1911, 9.

Mines in 1912, 9.

Macon County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	Manufacturers & Consumers Coal Co.	Decatur	16,066	50,702	50,805	117,573
2	Decatur Coal Co., No. 2.	do.	15,917	27,933	10,054	53,904
3	Blue Mound Coal Co., No. 1.	Blue Mound.	5,672	21,792	14,977	42,441
4	Decatur Coal Co., Niantic.	Niantic.	1,542	21,334	16,866	39,742
5	Decatur Coal Co., No. 1.	Decatur	5,306	9,310	3,350	17,966
Total—5 mines.			44,503	131,071	96,052	271,626

Mines reported for 1911, 5.

Mines in 1912, 5.

Fifth District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Acci- dents.		Blasting coal—from solid or undercut or both.	Number of animals under-ground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
274,490	27,788	14,400	153	280	113	393	302,278	.....	.....	4	Solid.....	.....	22	1
175,803	59,417	8,945	183	221	86	307	235,220	.....	.....	7	do.....	.....	23	2
140,990	49,114	2,175	149	185	75	260	190,104	.....	.....	1	U. C.....	.....	15	3
54,057	131,531	1,201	167	196	61	257	185,588	.....	.....	.....	do.....	.....	13	4
161,492	14,024	1,500	128	130	96	226	.....	175,516	.....	4	do.....	.....	22	5
116,517	18,368	1,015	116	184	56	240	134,885	.....	.....	.....	do.....	.....	10	6
54,976	20,289	283	199	111	47	158	75,265	.....	.....	3	do.....	.....	15	7
39,470	2,177	285	53	166	51	217	41,647	.....	.....	2	do.....	.....	8	8
1,017,795	322,708	29,804	144	1,473	585	2,058	1,164,987	175,516	1	27	.....	.....	128	.....
.....	5,688	250	88	7	6	13	5,688	.....	.....	.....	.....	.....	.....	1
1,017,795	328,396	30,054	137	1,480	591	2,071	1,170,675	175,516	1	27	.....	.....	128	.....

Fifth District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Acci- dents.		Blasting coal—from solid or undercut or both.	Number of animals under-ground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
45,622	71,951	.....	229	179	65	244	117,573	.....	2	6	.....	.....	20	1
4,730	49,174	.....	184	100	42	142	53,904	.....	.....	.....	.....	.....	.....	2
32,159	10,282	2,526	140	56	20	76	42,441	.....	.....	.....	Solid.....	.....	8	3
30,169	9,573	2,219	138	44	17	61	39,742	.....	.....	.....	do.....	.....	9	4
3,593	14,373	.....	138	48	26	74	17,966	.....	.....	.....	.....	.....	10	5
116,273	155,353	4,745	166	427	170	597	271,626	.....	2	6	.....	.....	47	.....

Moultrie County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	Lovington Coal Mining Co., No. 1	Lovington.....	1,298	24,186	28,678	54,162

Mines reported for 1911, 1.
Mines in 1912, 1.

Shelby County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	Century Coal Co., No. 1.....	Tower Hill	3,563	18,318	39,528	61,409
2	Moweaqua C. M. & Mfg. Co., No. 1.....	Moweaqua.....	968	26,023	26,435	53,426
Total.....			4,531	44,341	65,963	114,835
LOCAL MINES.						
1	Domas & Domas	Shelbyville		3,700	100	3,800
2	Stretch Mine.....	do.....		3,621	120	3,741
3	Wm. Baum, No. 1.....	do.....		2,400	60	2,460
4	Wm. Baum, No. 3.....	do.....		1,600	50	1,650
5	Vanderpool & Graburn.....	do.....	1,006		52	1,058
6	Wm. Baum, No. 2.....	do.....		1,000		1,000
Total.....			1,006	12,321	382	13,709
Total—8 mines.....			5,537	56,662	66,345	128,544

Mines reported for 1911, 8.
New mines, 2.
Abandoned mines, 2.
Mines, 1912, 8.

Fifth District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Accidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
44,921	9,241	415	229	48	20	68	54,162	.....	.....	.....	U. C. ....	.....	5	1

Fifth District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Accidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
52,376	9,033	525	120	63	44	107	61,409	.....	.....	.....	Solid. ....	.....	11	1
38,254	15,172	1,000	123	56	48	104	.....	53,426	.....	.....	U. C. ....	.....	7	2
90,630	24,205	1,525	122	119	92	211	61,409	53,426	.....	.....	.....	.....	18	
.....	3,800	.....	250	14	5	19	3,800	.....	.....	.....	.....	.....	.....	1
.....	3,741	.....	220	6	3	9	3,741	.....	.....	.....	.....	.....	.....	2
.....	2,460	.....	230	12	2	14	2,460	.....	.....	.....	.....	.....	.....	3
.....	1,650	.....	150	4	2	6	1,650	.....	.....	.....	.....	.....	.....	4
.....	1,058	.....	200	8	1	9	1,058	.....	.....	.....	.....	.....	.....	5
.....	1,000	.....	250	6	1	7	1,000	.....	.....	.....	.....	.....	.....	6
.....	13,709	.....	217	50	14	64	13,709	.....	.....	.....	.....	.....	.....
90,630	37,914	1,525	193	169	106	275	75,118	53,426	.....	.....	.....	.....	18	

Vermilion County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	Bunsen Coal Co., Vermilion.....	Westville.....	76,989	192,644	371,031	640,664
2	Busnen Coal Co., No. 4.....	do.....	94,682	227,377	239,110	561,169
3	Dering Coal Co., No. 2.....	do.....	79,399	139,461	108,087	326,947
4	Bunsen Coal Co., No. 2.....	do.....	112,760	69,194	120,770	302,724
5	Dering Coal Co., No. 3.....	Steeltown.....	296,573	.....	4,530	301,103
6	Bunsen Coal Co., No. 3.....	Westville.....	174,672	36,995	85,920	297,587
7	Dering Coal Co., No. 4.....	Steeltown.....	117,868	49,274	35,513	202,655
8	Electric Coal Co.....	Danville.....	1,500	120,214	80,143	201,857
9	Danville Col. Co.....	Catlin.....	38,319	54,131	22,726	115,176
10	Tilton Coal Co., Comet.....	Danville.....	73,941	.....	.....	73,941
11	Mission Mining Co., No. 1.....	do.....	15,000	26,774	11,474	53,248
12	Black Diamond Coal Co., No. 1.....	do.....	42,370	.....	.....	42,370
13	Fairmount Coal Co., No. 1.....	Fairmount.....	38,250	.....	.....	38,250
14	Bushong Bros., No. 1.....	Muncie.....	28,819	.....	.....	28,819
15	Sharon C. & B. Co., No. 1.....	Georgetown.....	2,669	8,272	6,774	17,715
16	Traer Coal Co., No. 1.....	Danville.....	3,155	3,704	3,916	10,775
17	Missionfields Coal Co., No. 2.....	do.....	3,576	.....	.....	3,576
18	Missionfields Coal Co., No. 3.....	do.....	500	1,200	1,038	2,738
Total.....			1,201,042	929,240	1,091,032	3,221,314
LOCAL MINES.						
1	Contract Mining Co.....	Danville.....	70,916	.....	.....	70,916
2	J. W. Mauck & Son.....	do.....	12,300	.....	.....	12,300
3	Mauck & Spangler.....	do.....	2,224	4,340	2,741	9,305
4	W. J. Watkins.....	do.....	1,800	3,640	1,820	7,260
5	John Aldredge.....	do.....	6,000	.....	.....	6,000
6	Joe Mauck.....	do.....	6,000	.....	.....	6,000
7	Bushong & Walker.....	Catlin.....	.....	3,300	1,500	4,800
8	Wm. C. Schafer.....	Danville.....	4,500	.....	.....	4,500
9	W. F. Crawford & Son.....	Collison.....	1,000	2,000	1,000	4,000
10	Geo. H. Haskins.....	Grape Creek.....	3,000	.....	.....	3,000
11	C. C. Moulton.....	Danville.....	.....	3,000	.....	3,000
12	Henry Wonderlin.....	do.....	2,900	.....	.....	2,900
13	Olson Bros.....	Grape Creek.....	.....	1,900	950	2,850
14	L. Balducki.....	Fairmount.....	2,600	.....	.....	2,600
15	Hodges Coal Co.....	Danville.....	1,360	850	350	2,569
16	Crawford Bros.....	Fairmount.....	300	1,200	300	1,800
17	John Olson.....	Danville.....	.....	1,140	600	1,740
18	P. I. Ogden & Son.....	do.....	1,147	.....	.....	1,147
19	James Thomas.....	do.....	1,000	.....	.....	1,000
20	T. P. Pearson.....	Catlin.....	670	.....	.....	670
21	W. A. Cole.....	Danville.....	631	.....	.....	631
22	J. W. Ewen.....	Grape Creek.....	600	.....	.....	600
23	Oscar Ellis.....	Danville.....	600	.....	.....	600
24	John Mitchell.....	Oakwood.....	500	.....	.....	500
25	House & Ritter.....	Danville.....	500	.....	.....	500
26	Ed Lewis.....	do.....	500	.....	.....	500
27	Chas. High.....	do.....	500	.....	.....	500
28	Anthony Wilson.....	do.....	500	.....	.....	500
29	Wm. Shepard.....	Catlin.....	300	.....	.....	300
30	John Ashby.....	Westville.....	150	.....	.....	150
Total.....			122,498	21,370	9,261	153,129
Total—48 mines.....			1,323,540	950,610	1,100,293	3,374,443

Mines reported 1911, 44.

New mines, 12.

Abandoned mines, 8.

Mines in 1912, 48.

Fifth District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Acci- dents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
628,739	11,925	18,778	262	239	445	684	320,481	320,183	...	8	Both...	...	34	1
553,405	7,764	23,155	263	410	233	643	561,169	...	2	3	Solid...	...	33	2
322,417	4,530	11,990	206	266	119	385	326,947	...	4	9	do...	...	23	3
292,589	10,135	9,513	259	142	233	375	170,059	132,665	4	1	Both...	...	20	4
296,573	4,530	12,002	201	262	123	385	301,103	...	2	10	Solid...	...	27	5
282,445	15,142	5,960	265	59	237	296	73,212	224,375	1	4	Both...	...	19	6
199,407	3,248	8,482	201	159	83	242	202,655	...	1	8	Solid...	...	27	7
197,477	4,380	9,000	273	180	19	199	201,857	...	1	13	do...	...	18	8
113,875	1,301	5,433	227	108	40	148	115,176	...	1	...	do...	...	11	9
70,941	3,000	3,174	219	63	17	80	73,941	...	...	...	do...	...	5	10
53,000	248	500	232	...	70	70	53,248	...	...	3	do...	...	2	11
42,370	...	2,106	215	48	17	65	42,370	...	...	...	do...	...	6	12
31,350	6,900	2,130	181	48	20	68	38,250	...	1	...	do...	...	6	13
25,000	3,819	1,455	160	30	20	50	28,819	...	...	...	do...	...	5	14
1,296	16,419	583	195	16	10	26	17,715	...	1	...	do...	...	2	15
10,480	295	422	188	14	11	25	4,625	6,150	...	...	Both...	...	3	16
3,576	...	130	162	8	4	12	3,576	...	...	...	Solid...	...	1	17
2,609	129	100	131	9	11	20	2,322	416	...	...	do...	...	1	18
3,127,549	93,765	114,913	213	2,061	1,712	3,773	2,537,525	683,789	18	59	...	...	243	
70,916	1,900	304	29	32	61	70,916	...	...	...	...	...	...	1	
12,300	300	250	10	3	13	12,300	...	...	...	...	...	...	2	
9,305	609	168	8	1	9	9,305	...	...	...	...	...	...	3	
7,260	251	250	9	3	12	7,260	...	...	...	...	...	...	4	
6,000	200	275	4	2	6	6,000	...	...	...	...	...	...	5	
6,000	320	123	9	2	11	6,000	...	...	...	...	...	...	6	
4,800	195	200	4	2	6	4,800	...	...	...	...	...	...	7	
4,500	120	240	4	5	9	4,500	...	...	...	...	...	...	8	
4,000	163	240	10	3	13	4,000	...	...	...	...	...	...	9	
3,000	210	180	4	2	6	3,000	...	...	...	...	...	...	10	
3,000	200	160	4	1	5	3,000	...	...	...	...	...	...	11	
2,900	125	260	5	1	6	2,900	...	...	...	...	...	...	12	
2,850	86	155	3	...	3	2,850	...	...	...	...	...	...	13	
2,600	90	200	4	1	5	2,600	...	...	...	...	...	...	14	
2,560	102	250	5	2	7	2,560	...	...	...	...	...	...	15	
1,800	90	120	4	1	5	1,800	...	...	...	...	...	...	16	
1,740	69	78	6	2	8	1,740	...	...	...	...	...	...	17	
1,147	50	175	2	...	2	1,147	...	...	...	...	...	...	18	
1,000	50	100	4	1	5	1,000	...	...	...	...	...	...	19	
670	22	160	2	3	5	670	...	...	...	...	...	...	20	
631	33	50	6	2	8	631	...	...	...	...	...	...	21	
600	25	100	3	3	6	600	...	...	...	...	...	...	22	
600	30	100	1	1	2	600	...	...	...	...	...	...	23	
500	20	120	2	2	4	500	...	...	...	...	...	...	24	
500	20	125	2	...	2	500	...	...	...	...	...	...	25	
500	20	90	2	3	5	500	...	...	...	...	...	...	26	
500	20	200	2	1	3	500	...	...	...	...	...	...	27	
500	8	150	1	1	2	500	...	...	...	...	...	...	28	
300	18	100	1	...	1	300	...	...	...	...	...	...	29	
150	2	50	2	2	4	150	...	...	...	...	...	...	30	
153,129	5,348	166	152	82	234	153,129	...	...	...	...	...	...	243	
3,127,549	246,894	120,261	184	2,213	1,794	4,007	2,690,654	683,789	18	59	...	...	243	

Shipping mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons.						Total.	Disposition of out-put—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
Christian.....	8	566,083	347,536	5,984	44,901	312,333	63,666	1,340,503	1,017,795	322,708
Macon.....	5	44,503	131,071	29,325	8,253	43,688	14,786	271,626	116,273	155,353
Moultrie.....	1	1,298	24,186	4,175	4,021	14,907	5,575	54,162	44,921	9,241
Shelby.....	2	4,531	44,341	19,414	10,793	31,348	4,408	114,835	90,630	24,205
Vermilion.....	18	1,201,042	929,240	40	139,492	287,004	664,496	3,221,314	3,127,549	93,765
Total.....	34	1,817,457	1,476,374	58,938	207,460	689,280	752,931	5,002,440	4,397,168	605,272

Local mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons.						Total.	Disposition of out-put—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
Christian.....	1	.....	3,000	.....	2,688	.....	.....	5,688	.....	5,688
Shelby.....	6	1,006	12,321	.....	.....	.....	382	13,709	.....	13,709
Vermilion....	30	122,498	21,370	.....	.....	4,100	5,161	153,129	.....	153,129
Total.....	37	123,504	36,691	.....	2,688	4,100	5,543	172,526	.....	172,526
The District...	71	1,940,961	1,513,065	58,938	210,148	693,380	758,474	5,174,966	4,397,168	777,798

Whole number of mines reported for 1911, 67.

Number of new mines opened during the year, 14.

Number of mines abandoned during the year, 10.

Whole number of mines reported for 1912, 71.

counties—Fifth District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees.						Tons mined.		Blasting coal.		
		Underground.			All above ground.	Total.		By hand.	By machine.	From solid—tons.	Undercut—tons.	Both methods—tons.
		Miners.	Boys.	Others.								
29,804	144	1,473	378	42	165	2,058	1,164,987	175,516	537,498	803,005	.....	.....
4,745	166	427	118	6	46	597	271,626	.....	271,626	.....	.....	.....
415	229	48	8	.....	12	68	54,162	.....	.....	54,162	.....	.....
1,525	122	119	62	8	22	211	61,409	53,426	61,409	53,426	.....	.....
114,913	213	2,061	1,404	56	252	3,773	2,537,525	683,789	1,969,564	1,251,750	.....	.....
151,402	185	4,128	1,970	112	497	6,707	4,089,709	912,731	2,840,097	2,162,343	.....	.....

counties—Fifth District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees.						Tons mined.		Blasting coal.		
		Underground.			All above ground.	Total.		By hand.	By machine.	From solid—tons.	Undercut—tons.	Both methods—tons.
		Miners.	Others.	Boys.								
250	88	7	4	.....	2	13	5,688	.....	.....	.....	.....	.....
.....	217	50	.....	.....	14	64	13,709	.....	.....	.....	.....	.....
5,348	166	152	20	9	53	234	153,129	.....	.....	.....	.....	.....
5,598	172	209	24	9	69	311	172,526	.....	.....	.....	.....	.....
157,000	178	4,337	1,994	121	562	7,018	4,262,235	912,731	.....	.....	.....	.....

All mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons.						Total.	Disposition of out-put—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
Christian.....	9	566,083	350,536	5,984	47,589	312,333	63,666	1,346,191	1,017,795	328,396
Macon.....	5	44,503	131,071	29,325	8,253	43,688	14,786	271,626	116,273	155,353
Moultrie.....	1	1,298	24,186	4,175	4,021	14,907	5,575	54,162	44,921	9,241
Shelby.....	8	5,537	56,662	19,414	10,793	31,348	4,790	128,544	90,630	37,914
Vermilion.....	48	1,323,540	950,610	40	139,492	291,104	669,657	3,374,443	3,127,549	246,894
Total	71	1,940,961	1,513,065	58,938	210,148	693,380	758,474	5,174,966	4,397,168	777,798

counties—Fifth District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees.						Tons mined.		Blasting coal.		
		Underground.			All above ground.	Total.				From solid—tons.	Undercut—tons.	Both methods—tons.
		Miners.	Boys.	Others.								
30,054	137	1,480	382	42	167	2,071	1,170,675	175,516	.....	.....	.....	.....
4,745	166	427	118	6	46	597	271,626	.....	.....	.....	.....	.....
415	229	48	8	.....	12	68	54,162	.....	.....	.....	.....	.....
1,525	193	169	62	8	36	275	75,118	53,426	.....	.....	.....	.....
120,261	184	2,213	1,424	65	303	4,007	2,690,654	683,789	.....	.....	.....	.....
157,000	178	4,337	1,994	121	564	7,018	4,262,235	912,731	.....	.....	.....	.....

SIXTH INSPECTION DISTRICT—1912.

ANNUAL REPORT.

Counties—Logan, McLean, Sangamon.

THOMAS P. BACK, *Inspector*, Springfield.

Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield:

SIR—Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing counties of Logan, McLean and Sangamon.

SUMMARY OF THE ITEMS SHOWN IN THE REPORT.

Number of counties producing coal.....	3
Number of shipping mines.....	35
Number of local mines.....	5
Number of new or reopened mines.....	2
Number of closed or abandoned mines.....	2
Number of miners.....	5,243
Others underground, men.....	2,184
Boys underground.....	171
Boys above ground.....	4
Others above ground.....	657
Total number of employees.....	8,259
Total tons of coal produced.....	6,014,872
Days of active operation, all mines.....	169
Kegs of powder used for blasting coal.....	252,473
Tons of coal shipped.....	5,326,081
Tons supplied to locomotives.....	97,039
Tons sold to local trade.....	406,874
Tons consumed and wasted at the mines.....	184,878
Number of fatal accidents.....	6
Number of non-fatal accidents.....	24
Number of employees to each fatal accident.....	1,377
Number of employees to each non-fatal accident.....	344
Tons of coal produced to each fatal accident.....	1,002,479
Tons of coal produced to each non-fatal accident.....	25,203
Ratio of fatal accidents per 1,000 employees.....	.73

The following table shows the output in tons by counties for the years ended June 30, 1911 and 1912, with the increase in each:

Counties.	Total output—tons.		Increase.
	1911.	1912.	
Logan.....	304,099	429,555	125,456
McLean.....	89,925	96,898	6,973
Sangamon.....	4,716,401	5,488,419	772,018
Total.....	5,110,425	6,014,872	904,447

NEW AND ABANDONED MINES.

No new mines have been opened and but two have been abandoned or closed down this year.

CHANGE OF OWNERSHIP.

The local mine at Salisbury, Sangamon County, formerly known as the A. S. Cronister mine is now operated by H. C. Brandt. Two mines at Pleasant Plains, Sangamon County, formerly known as the Ed. Galladay mine and the Coöperative Coal Company's mine have changed hands and the former is now operated by John Goetz and the latter by the Citizens Coal Co.

IMPROVEMENTS.

The Tuxhorn Coal Company's Springfield mine, Keys, Sangamon County, made improvements during the year as follows: New steel I-beams in their track scales, reservoir with a capacity of 800,000 gallons, enlarged tunnel of air shaft, raised and lengthened screens, and installed a 96 H. P. O'Brien tubular boiler 6x18 with 26 inch flues and now relaying all mine tracks to install motor haulage.

The Springfield Coal Mining Company has raised the sheave wheels ten feet and installed a new boiler, size 72 inches by 18 feet, with seventy 4-inch flues at No. 2 mine, Riverton, Sangamon County. The company has put in at No. 5 mine, Springfield, two 10-ton gasoline motors and is now putting in new steel structures for shaker screens.

The Cantrall Coöperative Coal Company, put in at the Cantrall mine, Sangamon County, improvements as follows: Nine thousand three hundred feet new 25 pound rails from bottom to face of works, one 100 K. W. generator, one 15x16 McEuen engine, 100 K. W. switch board, one 8-ton Jeffrey electric locomotive, one 150 H. P. tubular boiler, and remodeled the engine and boiler rooms, and also put in fifty new mine cars. The cost of these improvements was \$16,000.00. The company has put in, at the Republic mine, Springfield, a new track scale.

The Chicago, Wilmington & Vermilion Coal Company at mine No. 1, Thayer, Sangamon County, has installed the latest improved Jeffrey fan, 5 feet by 16 feet, direct connected to Ridgeway engine, 19 inches by 20 inches, also a 100 ton 80-foot Fairbank track scales with steel bearings and had the other two track scales rebuilt and set on steel bearings same as the new scale. The company has constructed a new washing plant, known as the Stewart Washer, with a capacity in 8 hours of 1,200 tons. The washer is built to make the following grades of coal: No. 1, No. 2, and No. 3, washed nut No. 4, washed pea and No. 5 washed slack, with appliances for making any mixtures of the above grades required by the trade. Extensive improvements below have been made, among which was blasting down the roof and raising the track 12 feet to give the loads gravity to run to the cage.

The Williamsville Coal Company has installed at its mine, Selbytown, Sangamon County, a new Jeffrey ventilating fan, 6 feet, double inlet, reversible, with a guaranteed capacity of 75,000 cubic feet per minute, delivered against a mine resistance of 4-inch water gauge. The fan in its present condition will deliver 40,000 cubic feet of air against a 2.4 inch water gauge, or 50,000 against 3.7 inch water gauge. The fan is driven by a 11-inch by 15-inch Erie engine. The company has also constructed a concrete tunnel from the fan to the air shaft, and retimbered the air and escape shaft throughout, and put new stairs in the escape shaft.

The Illinois Midland Coal Company has installed four new Erie boilers 6 feet by 18 feet, with seventy 4-inch flues each, rated 150 H. P., and one 10-ton Whitcomb gasoline motor at the Peabody mine, Sherman, Sangamon County.

The Madison Coal Corporation, at the No. 6 mine, Divernon, Sangamon County, has installed on the shaft bottom the automatic safety mine car

caging machine, made in Bowerston, Ohio. This machine holds a car in readiness until the cage reaches the bottom, when it trips a spring, releasing the car which runs on the cage by gravity.

MINE FIRES.

On the morning of May 5, 1912, the top works of the Spaulding Coal Company's mine at Spaulding, Sangamon County, caught fire and were entirely destroyed, including fan, engine and boiler room.

May 9, 1912, a fire broke out in the McLean County Coal Co.'s mine, at Bloomington, McLean County, in No. 1 drop shaft, located about 3,000 feet from the bottom of the hoisting shaft. There are two seams of coal being worked in this mine and the coal from the upper seam is lowered by drop shafts to the lower seam and hoisted from there to the surface. The mine examiner, on going into the mine at eleven o'clock p. m., discovered that No. 1 drop shaft was on fire and gave the alarm. The management got the mules out of the lower seam to the surface, but the fire had gained such headway that they were unable to get the mules from the upper seam. They then sealed both the hoisting and escape shafts and left them sealed for thirty days. On June 10, 1912, I called up Hector McAllister and John Dunlop, mine inspectors, to assist me in entering the mine to ascertain the extent of damage and to see if the fire was extinguished. We entered the mine on the afternoon of the tenth, but did not succeed in reaching the top of the burned drop shaft until next day, owing to the pressure of so much blackdamp. We could not detect the presence of any fire and left. On June 12, the company called me and said the fire had again broken out. I then proceeded to the mine and asked Mr. Dunlop to come and assist me in directing the work. After staying there all week we had the pleasure of leaving the mine with all temporary stoppings built and the workmen busily engaged in putting in brick stoppings. No fire or smoke has since appeared. The cause of the fire is unknown, but is supposed to have been from a pit lamp igniting timber, which would readily burn, as this is a very dry mine, and the drop shaft being in the main air current. I desire to express my thanks to Mr. McAllister and Mr. Dunlop for their valuable assistance in this case.

FATAL ACCIDENTS.

July 11, 1911, Alvey Byers, weighman, aged 25 years, married, was killed by the tower of the Black Diamond Coal Company's mine falling on him. He leaves a widow and one child.

August 17, 1911, George Peddie, miner, aged 26 years, married, was killed by a fall of slate in the Wabash Coal Company's mine, Dawson, Sangamon County. Deceased was loading a car of coal at the face of the entry, known as the Peddie entry, when, about 2:30 p. m., the slate fell and struck him on the back of the neck. He had been working in the place since morning, but evidently did not know the slate had become loose. He leaves a widow.

October 17, 1911, Ralph Sunman, driver, aged 20 years, single, died at St. John's hospital, Springfield, from injuries received in the Tuxhorn Coal Co.'s mine, Keys, Sangamon County, on May 13, 1911, by a trip of pit cars.

November 14, 1911, Harry Denny, miner, aged 18 years, single, met his death in the Latham Coal Company's mine at Lincoln, Logan County. Deceased was taken ill in his room in the mine about 10:30 a. m. He came out to the entry and sat down, then fell over and never regained consciousness. The verdict of the coroner's jury was that death was caused by asphyxia.

January 12, 1912, Leonard Gorenflo, top foreman, aged 32 years, married, was killed by being struck in the chest with a hook, at the Jones and Adams Coal Company's Peerless mine, Springfield, Sangamon County. Deceased was pulling down empty cars to the tippie with a cable, and, instead of going up the lump coal track with the hook to attach the car, he crossed it between the timbers dividing the tracks, thereby pulling crossway of the tracks. When the car was on the scales he ran to unhook the rope when

it broke loose from the car and struck him in the breast breaking a rib which penetrated the lung, causing internal hemorrhage. The accident occurred at 9:50 a. m., and he lived till 1:45 p. m. He leaves a widow and two children.

January 20, 1912, Martin Yawcanskie, miner, aged 35 years, married, was seriously burned by an explosion of powder at the Illinois Midland Coal Company's Victor mine, Pawnee, Sangamon County. No one knows how the accident occurred, but, on examination, there was found a broken powder keg, a tamping bar and a steel scraper. The accident occurred about 11:30 a. m., January 20th, and he died at 3:00 o'clock p. m., Feb. 1, 1912.

I desire to express my thanks and appreciation to Mr. Robert Reavley of Riverton, County Mine Inspector for Sangamon County, for his valuable assistance to me on coming to the sixth inspection district. I also wish to thank Mr. William Woodson of Springfield and Mr. Wm. Schieler of Lincoln for their good will and assistance to me in my work.

Respectfully submitted,

THOMAS P. BACK,
State Inspector of Mines, Sixth District, Springfield, Ill.

Fatal casualties—Sixth District—June 30, 1912.

Date.	Name.	Age.	Occupation.	Residence.	Married. Single.	Widow.	Children.	Dependents.	Cause of death.
1911.									
July 11	Alvey Byers.....	25	Weighman.....	Auburn.....	1	1	1	2	Falling tower.....
Aug. 17	George Peddie.....	26	Miner.....	Dawson.....	1	1	1	1	Falling slate.....
17	Ralph Sunman.....	20	Driver.....	Springfield.....	1	1	1	1	Pit car.....
Nov. 14	Harry Denny.....	18	Miner.....	Lincoln.....	1	1	1	1	Asphyxiation.....
1912.									
Jan. 12	Leon Gorenflo.....	32	Foreman.....	Springfield.....	1	1	2	3	Struck with hook.....
Feb. 1	Martin Yancauski.....	35	Miner.....	Pawnee.....	1	1	3	4	Powder explosion.....
	Total.....				4	2	4	6	10

Recapitulation of fatal accidents—Sixth District—1912.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Auburn.....	1	Drivers.....	1	Asphyxiation.....	1	Black Diamond.....	1
Dawson.....	1	Foreman.....	1	Falling slate.....	1	Ill. Midland.....	1
Lincoln.....	1	Miners.....	3	Falling tower.....	1	Jones & Adams.....	1
Pawnee.....	1	Weighman.....	1	Pit car.....	1	Latham.....	1
Springfield.....	2			Powder explosion.....	1	Tuxhorn.....	1
				Struck by hook.....	1	Wabash.....	1
Total.....	6		6		6		6

Non-fatal casualties—Sixth District—June 30, 1912.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents.	Character of injury and cause of accident.	Time lost—days.
1911.									
Sept. 16	Dan Stavich.....	28	Divernon.....	1	..	2	3	Head injured, struck roof.....	30
Oct. 3	Fred Denton.....	45	Springfield.....	1	..	..	1	Ankle broken, falling coal.....	42
14	Clarence Skeyton.....	30	Pawnee.....	..	1	..	..	Leg broken, falling rail.....	47
19	Joe Kac.....	28	..do.....	..	1	..	..	Back broken, falling coal.....	*
31	Ben Mechelette.....	39	Selbytown.....	1	..	2	3	Body burned, gas explosion.....	225
Nov. 7	L. Donato.....	25	Ridgely.....	..	1	..	..	Collar bone broken, pit car.....	39
8	Ed. Hemrick.....	33	Springfield.....	1	..	3	4	Body injured, pit car.....	46
13	Andy Kelly.....	26	..do.....	..	1	..	1	Ankle injured, pit car.....	41
16	Geo. Lonarchi.....	22	Auburn.....	1	..	1	2	Back broken, falling coal.....	*
18	Adam Stemkoski.....	50	Divernon.....	1	..	2	1	Leg injured, falling coal.....	37
21	Geo. Karmiskey.....	..	Ridgely.....	..	1	..	..	Rib broken, pit car.....	65
29	Ed. Moore.....	24	Springfield.....	..	1	..	..	Leg broken, pit car.....	120
29	Jos. Creighton.....	20	..do.....	..	1	..	..	..do.....	122
Dec. 4	Geo. Bailey.....	30	..do.....	1	..	..	1	Ribs broken, pit cars.....	30
9	John Tonello.....	35	..do.....	1	..	3	4	Body injured, blown out shot.....	37
28	John Joblinski.....	30	Lincoln.....	1	..	2	3	Leg broken, pit car.....	35
1912.									
Feb. 29	Dominick Klickna.....	22	Springfield.....	..	1	..	..	Pelvis bone broken, pit car.....	90
Mar. 15	Richard Burke.....	21	..do.....	1	..	1	2	Foot broken, pit car.....	*
19	Walter Fernandes.....	32	Divernon.....	1	..	1	2	Pelvis bone broken, falling slate.....	60
22	Russell Davison.....	18	Pawnee.....	..	1	..	..	Body injured, motor.....	35
25	Essex Jones.....	28	Springfield.....	..	1	..	..	Leg broken, falling slate.....	*
May 27	Marcelina Lucas.....	58	Pawnee.....	1	..	..	1	Rib broken, fell down.....	33
June 26	John Wilson.....	25	Springfield.....	..	1	..	..	Body injured, pit car.....	*
	John Carr.....	18	..do.....	..	1	..	..	Shoulder injured, pit car.....	*
	Total.....			12	12	17	27		

* Not returned to work July 1, 1912.

Total number injured.....	24
Number not returned to work July 1, 1912.....	6

Number returned to work.....	18
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Total days lost by men returned to work.....	1, 134
Average days lost.....	63.00

Recapitulation of non-fatal casualties—Sixth District—1912.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Auburn.....	1	Cager.....	1	Blown out shot.....	1	Auburn & Alton.....	1
Divernon.....	3	Drivers.....	9	Falling coal.....	4	Capitol.....	2
Lincoln.....	1	Laborer.....	1	Falling rail.....	1	Chicago-Springfield.....	4
Pawnee.....	4	Loader.....	1	Falling slate.....	2	Citizens.....	1
Selbytown.....	1	Machine runner	1	Fell down.....	1	Ill. Midland.....	4
Springfield.....	12	Miners.....	8	Gas explosion.....	1	Jones & Adams.....	4
Ridgely.....	2	Shot-firer.....	1	Motor.....	1	Madison.....	3
		Switchman.....	1	Pit cars.....	12	Springfield Coop.....	1
		Trapper.....	1	Struck roof.....	1	Williamsville.....	1
						Woodside.....	3
Total.....	24	.....	24	.....	24	.....	24

Recapitulation of non-fatal casualties, nature of injuries, conjugal relations and time lost—Sixth District—1912.

Nature of injuries.	Number.	Married.	Single.	Children.	Dependents.	Time lost—days.		Percentage of injuries.
						Total.	Average.	
Ankle broken.....	1	1	—	—	1	42	42.00	4.17
Ankle injured.....	1	—	1	—	—	41	41.00	4.17
Back broken.....	2	1	1	1	2	—	—	8.33
Body burned.....	1	1	—	2	3	225	225.00	4.17
Body injured.....	4	2	2	6	8	118	39.33	16.66
Collar bone broken.....	1	—	1	—	—	39	39.00	4.17
Foot broken.....	1	1	—	1	2	—	—	4.17
Head injured.....	1	1	—	2	3	30	30.00	4.17
Legs broken.....	5	1	4	2	3	324	81.00	20.82
Leg injured.....	1	1	—	2	1	37	37.00	4.17
Pelvis bone broken.....	2	1	1	1	2	150	75.00	8.33
Ribs broken.....	3	2	1	—	2	128	42.67	12.50
Shoulder injured.....	1	—	1	—	—	—	—	4.17
Total.....	24	12	12	17	27	1,134	63.00	100.00

Logan County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	Latham Coal Co., North.....	Lincoln.....	52,109	91,626	83,851	227,586
2	Citizens Coal Mining Co.....	do.....	30,240	32,821	32,910	95,971
3	Lincoln Mining Co., No. 1.....	do.....		56,000	35,000	91,000
4	Mt. Pulaski Col. Co.....	Mt. Pulaski.....	4,212	6,328	4,458	14,998
Total—4 mines.....			86,561	186,775	156,219	429,555

Mines reported in 1911, 4.
Mines in 1912, 4.

McLean County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	McLean Co. Coal Co.....	Bloomington...	21,000	40,279	15,874	77,153
2	Colfax Coöperative Co., No 1.....	Colfax.....	14,857	3,847	1,041	19,745
	Total—2 mines.....	.....	35,857	44,126	16,915	96,898

Mines reported for 1911, 2.
Mines in 1912, 2.

Sixth District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Ac-cidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
204,062	23,524	11,519	203	247	106	353	227,586	.....	1	.....	Solid....	.....	32	1
45,629	50,342	41,688	210	86	54	140	95,971	.....	.....	.....	do.....	.....	23	2
60,000	31,000	4,500	156	90	60	150	91,000	.....	.....	.....	do.....	.....	10	3
2,800	12,198	712	170	25	9	34	14,998	.....	.....	.....	do.....	.....	3	4
312,491	117,064	20,899	185	448	229	677	429,555	.....	1	.....	.....	.....	68	

Sixth District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Ac-cidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
1,380	75,773	.....	220	119	49	168	77,153	.....	.....	.....	Solid....	.....	18	1
9,267	10,478	1,000	232	17	15	32	19,745	.....	.....	.....	do.....	.....	3	2
10,647	86,251	1,000	226	136	64	200	96,898	.....	.....	.....	.....	.....	21	

Sangamon County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	Chi., Wil. & Ver. Coal Co., No. 1.....	Thayer.....		118,022	368,118	486,140
2	Jones-Adams Coal Co., Peerless.....	Springfield.....	60,681	155,651	256,048	472,380
3	Springfield Coal Mining Co., No. 2.....	Riverton.....	24,391	143,320	221,226	388,937
4	Ill. Midland Coal Co., Victor 5.....	Pawnee.....	168,954	75,205	138,429	382,588
5	Madison Coal Corporation, No. 6.....	Divernon.....	310,213	19,318	25,119	354,650
6	Black Diamond Coal Co.....	Auburn.....	30,701	126,023	154,876	311,600
7	Woodside Coal Co.....	Springfield.....	87,162	118,466	63,726	269,354
8	Ill. Midland Coal Co., No. 6.....	Sherman.....	4,195	87,191	174,297	265,683
8	Capitol Coal Co., No. 2.....	Springfield.....	66,340	83,059	73,393	222,792
10	Chi.- Springfield Coal Co., C. S.....	do.....	19,146	76,595	103,737	199,478
11	Sangamon Coal Co.....	do.....	22,436	76,428	98,437	197,301
12	Springfield Coal Mining Co., No. 5.....	do.....	41,654	85,352	64,628	191,634
13	Cora Coal Co.....	do.....	34,782	82,434	62,393	179,609
14	Auburn & Alton Coal Co.....	Auburn.....	14,382	92,961	20,581	127,924
15	T. J. O' Gara, Jefferson.....	Springfield.....	51,994	40,518	28,832	121,344
16	West End Coal Co.....	do.....	2,722	61,539	55,000	119,261
17	Williamsville Coal Co.....	Selbytown.....	5,633	51,873	61,435	118,941
18	Cantrall Coö. Coal Co., Cantall.....	Cantrall.....	44,423	35,554	37,314	117,291
19	Springfield Coö. Coal Co., New North.....	Springfield.....	53,050	35,920	26,330	115,300
20	Lefton Coal Co.....	Auburn.....	5,310	81,559	25,779	112,648
21	Wabash Coal Co., No. 1.....	Dawson.....	16,972	46,218	42,001	105,191
22	Citizens Coal Mining Co., A.....	Springfield.....	28,449	35,681	29,168	93,298
23	Tuxhorn Coal Co.....	do.....	7,104	51,607	29,355	88,066
24	Barclay Coal & Mining Co.....	Barclay.....	11,273	36,996	33,389	81,658
25	Spring Creek Coal Co.....	Springfield.....	14,850	35,990	24,613	75,453
26	Dickerson Coal Co., Empire.....	do.....	19,804	36,451	18,608	74,863
27	Cantrall Coö. Coal Co., Republic.....	do.....	15,851	28,968	24,960	69,779
28	Springfield Coal Co., No. 1.....	Spaulding.....	10,600	8,000	18,888	37,488
29	Citizens Coal Mining Co., B.....	Springfield.....	7,125	9,305	4,984	21,414
Total.....			1,180,197	1,936,204	2,285,664	5,402,065
LOCAL MINES.						
1	Lincoln Park C. & B. Co.....	Springfield.....	16,234	21,790	21,856	59,880
2	Number Twelve Coal Co.....	do.....	7,522	10,150	5,513	23,185
3	Citizens Coal Co.....	Pleasant Plains.....		936	312	1,248
4	H. C. Brandt Coal Co.....	Salisbury.....		842	349	1,191
5	John Goetz.....	Pleasant Plains.....		650	200	850
Total.....			23,756	34,368	28,230	86,354
Total—34 mines.....			1,203,953	1,970,572	2,313,894	5,488,419

Mines reported for 1911, 36.

Abandoned mines, 2.

Mines in 1912, 34.

Sixth District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Accidents		Blasting coal—from solid or undercut or both.	Number of animals underground.			
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand	By machine.	Killed.	Injured.		Horses.	Mules	Number.	
468,770	17,370	4,932	199	370	525	525	486,140				U. C.			31	1
462,448	9,932	23,617	208	370	139	509	472,380		1	4	Solid.			26	2
362,262	26,675	17,265	192	311	87	398	388,937				do.			21	3
364,392	18,196	16,385	213	354	107	461	382,588		1	4	do.			26	4
342,500	12,150	3,232	132		514	514		354,650		3	U. C.	3		38	5
305,720	5,880	14,794	194	225	57	282	311,600		1		Solid.			14	6
203,935	65,419	13,090	200	260	87	347	269,354			3	do.			15	7
260,697	4,986	13,061	139	295	119	414	265,683				do.			34	8
172,250	50,542	10,089	212	210	95	305	222,792			2	do.			16	9
194,729	4,749	9,595	151	200	64	264	199,478			4	do.			34	10
184,799	12,502	9,793	203	185	64	249	197,301				do.			28	11
185,812	5,822	8,063	154	205	93	298	191,634				do.			42	12
177,167	2,442	8,693	163	165	52	217	179,609				do.			14	13
116,953	10,971	5,241	185	150	37	187	127,924			1	do.			16	14
100,019	21,325	7,173	202	125	50	175	121,344				do.			20	15
90,320	28,941	5,769	132	162	39	201	119,261				do.			12	16
114,687	4,254	5,719	169	95	47	142	118,941			1	do.			16	17
103,786	13,505	5,979	209	109	50	159	117,291				do.			10	18
79,750	35,550	5,539	206	96	42	138	115,300			1	do.			10	19
109,648	3,000	4,943	173	160	36	196	112,648				do.			16	20
99,190	6,001	6,130	200	91	49	140	105,191		1		do.			18	21
85,471	7,827	4,367	208	91	40	131	93,298			1	do.			16	22
83,870	4,196	5,600	124	172	65	217	88,066		1		do.			26	23
75,985	5,673	4,532	138	95	45	140	81,658				do.			11	24
72,640	2,813	3,670	124	83	30	113	75,453				do.			9	25
69,557	5,306	3,334	162	87	39	126	74,863				do.			10	26
60,340	9,439	3,288	163	84	46	130	69,779				do.			11	27
34,600	2,888	1,736	91	95	36	131	37,488				do.			20	28
20,646	759	975	45	93	47	140	21,414				do.			15	29
5,002,943	399,122	226,604	169	4,568	2,681	7,249	4,561,275	840,790	5	24		3		575	
59,880	2,810	188	57	30	87	59,880									1
23,185	998	175	25	8	33	23,185									2
1,248	50	78	4	1	5	1,248									3
1,191	52	120	3	2	5	1,191									4
850	60	110	2	1	3	850									5
86,354	3,970	134	91	42	133	86,354									
5,002,943	485,476	230,574	164	4,659	2,723	7,382	4,647,629	840,790	5	24		3		575	

Shipping mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons.						Total.	Disposition of out-put—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
Logan.....	4	86,561	186,775	20,364	24,385	75,949	35,521	429,555	312,491	117,064
McLean.....	2	35,857	44,126	450	7,297	6,946	2,222	96,898	10,647	86,251
Sangamon...	29	1,180,197	1,936,204	746,989	251,619	1,154,699	132,357	5,402,065	5,002,943	399,122
Total....	35	1,302,615	2,302,105	767,803	283,301	1,237,594	170,100	5,928,518	5,326,081	602,437

Local mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons.						Total.	Disposition of out-put—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
Sangamon...	5	23,756	34,368	28,230	.....	.....	.....	86,354	.....	86,354
Total....	5	23,756	34,368	28,230	.....	.....	.....	86,354	.....	86,354
The District.	40	1,326,371	2,201,473	796,033	283,301	1,237,594	170,100	6,014,872	5,326,081	688,791

Whole number of mines reported for 1911, 42.

Number of mines abandoned during the year, 2.

Whole number of mines reported for 1912, 40.

counties—Sixth District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees.					Tons mined.		Blasting coal.		
		Underground.			All above ground.	Total.	By hand.	By machine.	From solid—tons.	Undercut—tons.	Both methods—tons.
		Miners.	Others.	Boys.							
20,899	185	448	129	17	83	677	429,555	.....	429,555	.....	.....
1,000	226	136	43	1	20	200	96,898	.....	96,898	.....	.....
226,604	169	4,568	2,012	150	519	7,249	4,561,275	840,790	4,561,275	840,790	.....
248,503	174	5,152	2,184	168	622	8,126	5,087,728	840,790	5,087,728	840,790	.....

counties—Sixth District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees.					Tons mined.		Blasting coal.		
		Underground.			All above ground.	Total.	By hand.	By machine.	From solid—tons.	Undercut—tons.	Both methods—tons.
		Miners.	Others.	Boys.							
3,970	134	91	.....	3	39	133	86,354	.....	.....	.....	.....
3,970	134	91	.....	3	39	133	86,354	.....	.....	.....	.....
252,473	169	5,243	2,184	171	661	8,259	5,174,082	840,790	.....	.....	.....

All mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons.						Total.	Disposition of out-put—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
Logan.....	4	86,561	186,775	20,364	24,385	75,949	35,521	429,555	312,491	117,064
McLean.....	2	35,857	44,126	450	7,297	6,946	2,222	96,898	10,647	86,251
Sangamon...	34	1,203,953	1,970,572	775,219	251,619	1,154,699	132,357	5,488,419	5,002,943	485,476
Total....	40	1,326,371	2,201,473	796,033	283,301	1,237,594	170,100	6,014,872	5,326,081	688,791

counties—Sixth District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees					Tons mined.		Blasting coal.		
		Underground.			All above ground.	Total.	By hand.	By machine.	From solid—tons.	Undercut—tons.	Both methods—tons.
		Miners.	Others.	Boys.							
20,899	185	448	129	17	83	677	429,555	.....	.....	.....	.....
1,000	226	136	43	1	20	200	96,898	.....	.....	.....	.....
230,574	164	4,659	2,012	153	558	7,382	4,647,629	840,790	.....	.....	.....
252,473	169	5,243	2,184	171	661	8,259	5,174,082	840,790	.....	.....	.....

SEVENTH INSPECTION DISTRICT—1912.

ANNUAL REPORT.

Counties—Calhoun, Greene, Jersey, Macoupin, Montgomery.

W. W. WILLIAMS, *Inspector*, Litchfield.

Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield:

SIR—Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing counties of Calhoun, Greene, Jersey, Macoupin and Montgomery.

SUMMARY OF THE ITEMS SHOWN IN THE REPORT.

Number of counties producing coal.....	5
Number of shipping mines.....	23
Number of local mines.....	7
Number of new or reopened mines.....	..
Number of closed or abandoned mines.....	..
Number of miners.....	2,040
Other underground, men.....	4,599
Boys underground.....	149
Boys above ground.....	6
Others above ground.....	583
Total number of employees.....	7,377
Total tons of coal produced.....	7,201,251
Days of active operation, all mines.....	148
Keys of powder used for blasting coal.....	91,740
Tons of coal shipped.....	6,759,975
Tons supplied to locomotives.....	58,688
Tons sold to local trade.....	119,873
Tons consumed and wasted at the mines.....	262,715
Number of fatal accidents.....	23
Number of non-fatal accidents.....	84
Number of employees to each fatal accident.....	321
Number of employees to each non-fatal accident.....	88
Tons of coal produced to each fatal accident.....	313,098
Tons of coal produced to each non-fatal accident.....	85,729
Ratio of fatal accidents per 1,000 employees.....	3.12

The output in tons for the years ended June 30, 1911 and 1912, with the increase or decrease is shown by counties in the following table:

Counties.	Total output—tons.		Increase.	Decrease.
	1911.	1912.		
Calhoun.....	1,775	1,660	.....	115
Greene.....	6,428	5,400	.....	1,028
Jersey.....	578	800	222	.....
Macoupin.....	4,279,386	4,913,050	633,664	.....
Montgomery.....	2,189,078	2,280,341	91,263	.....
Total.....	6,477,245	7,201,251	725,149	1,143
Net increase.....	.....	.....	724,006	.....

NEW AND ABANDONED MINES.

No new mines are reported in operation this year and none abandoned.

CHANGE OF NAMES.

The Burnwell Coal Company, the Kortkamp Coal Company, and the Montgomery County Coal Company, will hereafter be operated under the name of Peabody Coal Company Nos. 11, 12, 14, and 15, respectively.

IMPROVEMENTS.

Considerable improvements have been made in mine No. 5 of the Madison Coal Corporation, Mt. Olive, such as cleaning air courses, covering trolley wires, etc. A concrete oil house to keep the day's supply of oil in, also a concrete machine and motor repair shop in which to do the repairing of machines and motors, have been built in the mine.

The company has purchased three sets of Fleuss mine rescue apparatus with all necessary appliances, such as pump, oxygen tanks, etc.; also has a set of first aid charts; has material on hand now to build a rescue station which will be erected soon; has built a new brick blacksmith and machine shop and equipped it with machinery; has purchased one new lathe, making two lathes in use; also a new lathe for turning motor wheels.

The supply house has been rebuilt and the company is now nicely fixed to take care of the supplies. The buildings have all been painted and yards cleaned and graded and everything put in first-class shape for the winter.

The Consolidated Coal Company of St. Louis, in mine No. 14, reduced the electric voltage from 500 to 275 volts to comply with the law.

Two general electric 10-ton locomotives and one Sullivan type undercutting machine have been installed. The machine has a 6 feet 6 inches cutter bar and makes a continuous cut under the coal 6 feet 6 inches deep by 1 foot 6 inches across the working face in one minute, so that a room 30 feet wide is cut 6 feet 6 inches deep in twenty minutes without resetting the jacks or removing props, thus leaving the timber supports to the roof as they were originally placed by the miner. No manual labor is required in loading or unloading, or while the cut is being made. The machine performs all operations under its own power. It is provided with a self-propelling truck, thus enabling the operator to transport the machine from one working place to another without the aid of mule power, as is the case with other types of mining machines.

Two new Westinghouse electric generators are being installed, one of 800 kilowatts, eleven hundred horse power, and one of 150 kilowatts, two hundred horse power. The 800 K. W. generator generates the power to operate the mine locomotives and mining machines, while the 150 K. W. generator will furnish the power to operate the mine fans, pumps, and furnish light. The generators will be driven by steam turbines running condensers; a cooling tower 25 feet by 25 feet and 75 feet high, will be built to cool the water for the condensers. Steam will be supplied by twelve 72 inch by 18 feet horizontal tubular boilers, connected to a concrete chimney, 175 feet high, 8 feet inside diameter at the top. The capacity of the stack is 2,000 H. P. The twelve boilers are connected to the large chimney by flues built of $\frac{1}{4}$ -inch American ingot iron. The furnaces under the boilers are equipped with automatic stokers, obviating hand firing. The coal used under the boilers will be conveyed from the coal washer by steel flight conveyors to large coal bins located overhead in the boiler house, so that the coal gravitates to the stokers, requiring no manual labor in the boiler house, except one man, whose duty will be to attend to the feed pumps, to keep the water in the boilers at its proper level. The ashes from the furnaces are conveyed out of the boiler house by steel flight conveyors to railroad cars provided for that purpose.

The No. 7 mine of this company, located at Staunton, Macoupin County, was closed down in August, 1909, on account of the antiquated equipment,

and the small shaft openings could not be operated successfully. This mine is now under way of being reopened. The hoisting shaft and air shaft are being enlarged, and when completed will be 8 feet 10 inches by 15 feet 6 inches. The mine track gauge will be widened from 22 inches to 42 inches. Three ton cars will be used in which the coal is transported from the working faces to the surface. The head works, hoisting tower and screen houses will be of steel construction and fireproof. The coal will be hoisted by one pair 24 inches by 36 inches Danville engines connected direct to an 8-foot diameter steel grooved drum. The electric power to operate the three 10-ton mine locomotives, twelve Sullivan continuous undercutting machines, mine fans and pumps, will be transmitted from No. 14 mine under pressure of 2,200 volts alternating current to the motor generator sets, where it is reduced from 2,200 volts A. C. to 275 volts D. C. The mine when completed, about Jan. 1, 1913, will have a capacity of 3,000 tons and give employment to five hundred men. In connection with this mine a coal washing plant of 1,200 tons capacity per eight hours is being built of the latest improved machinery for washing coal. The new washer will be built of steel and made fireproof.

In the No. 8 mine, Mt. Olive, the electric voltage was reduced from 500 volts to 275 volts. On account of the increasing demand for washed coal, 50 per cent of the coal hoisted from this mine is crushed at pit head, conveyed by steel flight conveyors to railroad cars and shipped to washing plants at Staunton and Mt. Olive, unloaded from the cars by unloading machinery and conveyed into the washery, where it is washed and again loaded in cars and shipped to market. At this mine two large coal bins, each 175 tons capacity, are located to supply engine coal for the Wabash engines. The coal used on the locomotives is also crushed to sizes from 6 inches down and conveyed by steel flight conveyors to the several bins. The ventilation for No. 8 mine is supplied by one 20-foot diameter fan, driven by electric motor, located at the old No. 10 mine, more than one mile away. The fan is incased in concrete walls, making every part fireproof, no wood or other inflammable material being used in the building. The power for driving the fan is generated at No. 8 mine and transmitted by overhead wires to the fan motor. At the bottom of the air shaft is located a triplex pump, electric driven, which starts as the water rises in the sump and when the water in the sump is exhausted, the pump will stop, being automatically cut out by an ingenious device operated by floates.

In mine No. 15, Mt. Olive, the electric voltage was reduced from 500 volts to 275 volts to comply with the State law. Two 10-ton electric locomotives have been installed at the mine to haul the coal from the workings to the shaft bottom. The cage landing at the shaft bottom has been lowered and the tracks graded, so that the loaded mine cars run by gravity to the cages. For empty car hauling, electrically driven machinery was installed, which hauls the empty cars up an incline of 5 feet 6 inches, when the empty cars again run by gravity to a point where the locomotives couple on and take them back in the works. Twelve cars per minute can be handled in this way.

The company has erected a new ventilator over the No. 10 mine at Mt. Olive to replace the one now over the No. 9 shaft.

The Burnwell Coal Company has installed electric motors in No. 2 mine at Witt.

The Shoal Creek Coal Company has built a new coal washer at the mine at Panama, to replace the one destroyed by fire on April 11, 1911.

The Peabody Coal Company suspended operations at No. 10 mine, Nokomis, for the purpose of erecting new top works, such as head frame, machinery, buildings, etc. This mine was sunk about six years ago, but so far has not been equipped as was originally contemplated.

The Superior Coal Company, Gillespie, has installed, at each of the three mines, a steel conical drum which very much facilitates the hoisting efficiency of the engines, lever throttles in place of the disc throttles, which are much easier to handle. The boiler plants have been improved by the installation of feed water heaters, automatic flue blowers, new pump lines, blow-off lines, etc. On the main steam header lines, condensing separators

have been installed with water traps attached which give a much better quality of steam. The improvements as now completed have added about 30 per cent to the efficiency of the plants. On the bottom of each mine, automatic block machines, or carstops, have been installed, increasing the facility for caging very materially. This is attested to by the phenomenal records made during the year at these mines. All previous records of these mines have been broken as well as the hoisting record of the State of Illinois. On Dec. 22, 1911, 4,468 13/20 tons were hoisted in eight hours.

In order to install this machinery at mine No. 1, it was necessary, on account of the grade, to sink the shaft two feet deeper and grade the bottom out on a profile made by the engineer, which included the rebuilding and regrading of all tracks adjacent to the bottom. This increase of the shaft required mechanical means for handling the empties at the bottom; they were therefore elevated by a traveling chain to a point where they would run by gravity, some three hundred feet away from the shaft, where the motors could get to them without going near the shaft. Gathering motors have also been installed at these mines.

In regard to measures of safety, first aid, mine rescue and inspection service, this company has made some material progress. The position of mine inspector, whose duty it is to go through the mine and observe any violations of the law by the company, or miners, and keep the main office informed at all times as to the condition of ventilation, fire-fighting equipment, traveling ways, etc., has been created.

A safety inspector, or face boss, as generally called in some places, has been employed to visit the working faces, talk with the miners, inform them on matters pertaining to their safety and give them such orders as he may deem necessary for their protection. This inspector is also under instructions to stop work at any place which he considers unsafe, until it is made safe; he is also to make a detailed record of all cases where he finds the miner neglectful of his own safety, which is filed in the main office.

The coöperation of the State and county inspectors, Miners' local officials, and every one interested in the work is enlisted and no effort is spared to make safety the first consideration at all times. Mottoes are printed on all pay envelopes of the miners, suggesting the importance of their looking after their own safety and warning them of the constant danger incident to coal mining.

The first aid corps was organized there at the time the rescue car, Superior, visited that place, and all expenses of their training and equipment was paid by the company. The interest in this work is maintained by the company as well as by the miners, and it is a source of pride to see the miners showing such zeal in the work. Red Cross emergency outfits are furnished at each mine and these first aid men are called on to attend every injury requiring surgical attention. This corps of first aid men are graduates of the Rescue Station at Springfield, and a class of students are being instructed by them in first aid and rescue work; regular sessions being held weekly for the purpose. To further equip this department the following has been purchased, to be used in the rescue stations at the mine: Three Draeger mouth breathing, 2-hour rescue apparatus, 3 Draeger emergency ½-hour capacity complete, 3 Fluess proto apparatus complete, 1 pulmotor complete, with extra oxygen cylinder, electric handlights, extra charging tanks, supply tanks, testing apparatus and complete recharging devices. This equipment is divided between the three mines and a properly arranged rescue station at the general office, where three sets of the apparatus with the pulmotor and the charging device will be kept for service at either mine.

FATAL ACCIDENTS.

July 20, 1911, B. Kohl, machine runner, aged 35 years, single, employed in Royal Colliery Company's mine No. 1, Virden, Macoupin County, was instantly killed by a shock from an electric wire.

July 26, 1911, Felix Catilans, shot firer, aged 35 years, single, was killed by a premature shot in the Royal Colliery Co.'s mine No. 1, Virden, Macoupin County.

July 29, 1911, John Kridel, driver, aged 21 years, single, was run over and killed in the Hillsboro Coal Company's mine, Hillsboro, Montgomery County.

August 2, 1911, Milt Lang, driver, aged 24 years, married, was killed by a fall of rock in the Clover Leaf Coal Company's mine No. 2, Coffeen, Montgomery County. He leaves a widow and two children.

September 13, 1911, Patrick Gallagher, miner, aged 37 years, married, employed in the Peabody Coal Company's No. 14 mine, Witt, Montgomery County, was killed by falling coal. Deceased was loading coal at the face of his room when a slab that had been loosened by his last shot fell killing him instantly. He leaves a widow and two children.

October 2, 1911, William Orr, timberman, aged 36 years, married, was killed by falling rock in a room which he was retimbering, in the mine of the Glenridge Coal Company, Virden, Macoupin County. He leaves a widow and three children.

October 14, 1911, William Kleinfelt, cager, aged 28 years, single, was killed by pit cars, in the Royal Colliery Company's mine, Virden, Macoupin County.

October 21, 1911, Herman Bentrup, loader, aged 55 years, married, employed at No. 14 mine of the Consolidated Coal Co., Staunton, Macoupin County, was killed by falling slate. He leaves a widow and four children.

October 25, 1911, Ed. Hankhouse, miner, aged 33 years, married, was killed by flying coal from a shot explosion in the mine of the Montgomery County Coal Company, Taylor Springs, Montgomery County. He leaves a widow and three children.

November 18, 1911, Nick Pickera, loader, aged 37 years, married, was killed by falling coal in the Superior Coal Co.'s mine No. 2, Gillespie, Macoupin County. He leaves a widow.

November 20, 1911, William Leitbetter, driver, aged 22 years, married, employed in Shoal Creek Coal Co.'s No. 1 mine, Panama, Montgomery County, was killed by pit cars. He leaves a widow and one child.

November 23, 1911, Luza Yeese, miner, aged 48 years, married, was killed by pit cars in the Montgomery County Coal Co.'s mine, Taylor Springs, Montgomery County. He leaves a widow and three children.

February 22, 1912, Ben Hall, loader, aged 31 years, married, was killed by a fall of rock in the Superior Coal Co.'s mine No. 1, Sawyerville, Macoupin County. He leaves a widow and two children.

March 2, 1912, Joe Moscus, miner, aged 45 years, single, was killed by pit cars in the Royal Colliery Co.'s mine, Virden, Macoupin County.

March 23, 1912, Emilia Brasa, miner, aged 45 years, married, employed at the Hillsboro Coal Co.'s mine, Hillsboro, Montgomery County, was killed by pit cars. He leaves a widow and one child.

April 8, 1912, Carl Kortkamp, timberman, aged 55 years, married, employed in the mine of Hillsboro Coal Company, died from the effects of injuries received by pit cars on March 23. He leaves a widow and two children.

April 21, 1912, Jesse Eckles, foreman, aged 34 years, single, in the Montgomery County Coal Co.'s mine, Taylor Springs, was killed. Deceased was lying on the ground looking into the shaft when the cage came down striking him on the head almost severing it from the body.

April 23, 1912, Porter Caulk, driver, aged 22 years, single, was killed in a gas explosion in the Shoal Creek Coal Co.'s mine, Panama, Montgomery County.

April 25, 1912, Joe Payne, driver, aged 25 years, married, was killed by a gas explosion in the Shoal Creek Coal Co.'s mine, Panama, Montgomery County. He leaves a widow.

May 20, 1912, Ed. Ferguson, shot firer, aged 29 years, married, employed in the Vivian Colliery Company's mine, Greenridge, Macoupin County, was killed by flying coal. He leaves a widow and one child.

May 23, 1912, Chris. Moore, miner, aged 45 years, married, was killed by falling slate in No. 14 mine of the Peabody Coal Company, Witt, Montgomery County. He leaves a widow.

May 25, 1912, Orlinda Bernadene, driver, aged 26 years, single, employed in the Superior Coal Company's No. 1 mine, Gillespie, Macoupin County, was killed by pit cars.

June 14, 1912, Mike Brunetto, loader, aged 34 years, married, was killed by a fall of coal in the Superior Coal Company's No. 2 mine, Benld, Macoupin County.

Respectfully submitted,

W. W. WILLIAMS,

State Inspector of Mines, Seventh District, Litchfield, Ill.

Fatal casualties—Seventh District—June 30, 1912.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Single.	Widow.	Children.	Dependents.	Cause of death.
1911.										
July 20	B. Kokl	35	Machine runner	Virden.	1					Electrocuted.
26	Felix Catlaus	35	Shot firer	do.	1					Premature blast.
29	John Kriddel	21	Driver	Hillsboro.	1					Pit cars
Aug. 2	Milt Lang	24	Driver	Coffeen	1	1	2	3		Falling rock.
Sept. 13	Patrick Gallagher	37	Miner	Burnwell	1	1	2	3		Falling coal.
Oct. 2	Wm. Orr	36	Timberman	Virden.	1	1	3	4		Falling rock.
14	Wm. Klienfelt	28	Cager	do.	1	1				Pit cars.
21	Herman Bentrup	55	Loader	Staunton	1	1	4	5		Falling slate.
25	Ed Hankhouse	33	Miner	Hillsboro	1	1	3	4		Shot explosion.
Nov. 18	Nick Pickera	37	Loader	Benld	1	1	1	1		Falling coal.
20	Wm. Leibeter	22	Driver	Sorento	1	1	1	2		Pit car.
23	Luza Yeese	48	Miner	Taylor Springs.	1	1	3	4		do.
1912.										
Feb. 22	Ben Hall	31	Loader	Gillespie	1	1	2	3		Falling rock.
Mar. 2	Joe Moscus	45	Miner	Virden.	1	1				Pit cars
23	Emilia Brasa	45	do.	Hillsboro	1	1	1	2		do.
Apr. 8	Carl Kortkamp	55	Timberman	do.	1	1	2	3		do.
21	Jesse Eckles	34	Foreman	do.	1	1				Cage descending
23	Porter Caulk	22	Driver	Panama	1	1	2	3		Gas explosion
23	Joe Payne	25	do.	do.	1	1	1	1		do.
May 20	Ed Ferguson	29	Shot firers	Farmersville.	1	1	1	2		Flying coal.
23	Chris Moore	45	Miner	Nokomis.	1	1	1	1		Falling slate.
25	Orlinda Bernadene	26	Driver	Benld	1	1				Pit cars
June 14	Mike Brunetto	34	Loader	do.	1	1	4	5		Falling coal
	Total				15	8	15	28	43	

Recapitulation of fatal casualties—Seventh District—1912.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Benld.	3	Cager	1	Cage	1	Clover Leaf	1
Burnwell.	1	Drivers	6	Electrocuted	1	Consolidated	1
Coffeen	1	Foreman	1	Falling coal	3	Glenridge	1
Farmersville	1	Loaders	4	Falling rock	3	Hillsboro	3
Gillespie	1	Machine runner	1	Falling slate	2	Montgomery Co.	3
Hillsboro	5	Miners	6	Flying coal	1	Peabody	2
Nokomis	1	Shot firers	2	Gas explosion	2	Royal	4
Panama	2	Timbermen	2	Pit cars	8	Shoal Creek	3
Staunton	1			Premature blast	1	Superior	4
Sorento	1			Shot explosion	1	Vivian	1
Taylor Springs	1						
Virden	5						
Total	23		23		23		23

Non-fatal casualties—Seventh District—June 30, 1912.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents.	Character of injury and cause of accident.	Time lost—days.
1911.									
July 6	Bernard Meyers	60	Mt. Olive	1		4	4	Foot injured, pit car	42
31	Mike Zacco	27	Panama	1	1			Head injured, mule	165
Aug. 11	Reinhard Sandner	44	Mt. Olive	1		6	5	Rib broken, pit car	34
17	Tony Reginold	55	do	1		10	5	Body injured, pit car	42
22	John Colter	30	do	1				Hand injured, falling coal	37
Sept. 9	Frank Suncek	28	Sawyer ville	1	1			Leg broken, falling clod	54
19	James Burns	46	Gillespie	1		5	6	Ankle injured, falling coal	33
20	John Magos	48	Benld	1		3	4	Arm broken, falling coal	34
20	Joe Coyonovch	21	Sawyer ville	1	1			Eye injured, flying steel	34
23	Louis Fansima	31	Greenridge	1			1	Finger injured, falling coal	63
27	Joe Mechalochal	28	Mt. Olive	1		2	3	Leg broken, falling coal	132
28	John Boston	31	do	1		1	1	Collar bone broken, pit car	45
28	Wade Rucher	42	Girard	1	1	1	1	Body injured, pit cars	30
Oct. 4	T. H. Stiller	43	Gillespie	1		3	4	Head injured, falling coal	48
6	John Hoodick	32	Nokomis	1	1	1	2	Back injured, cage	74
6	James Keating	39	do	1		4	5	Leg broken, cage	*
6	W. A. McLeon, Jr	17	do	1				Leg injured, Cage	*
6	Lyman Cheaney	16	do	1				do	*
6	Frank Patton	20	do	1	1			Foot broken, cage	136
6	Frank Gousheck	26	do	1			1	Leg broken, cage	*
6	John Hill	46	do	1		4	5	do	*
6	J. W. Quesenbury	38	do	1		3	4	Foot broken, cage	72
9	Andy Rolando	28	Greenridge	1			1	Head injured falling slate	30
19	S. Vatal	31	Mt. Olive	1		3	4	Foot injured, falling coal	31
21	Hugh Osbourne	33	Gillespie	1	1			Arm broken, pit car	72
25	Chas. J. Ofew	38	Hillsboro	1			1	Back injured, falling coal	32
31	Backtolo Markazina	58	Girard	1			1	Leg injured, falling coal	91
Nov. 31	Frank Snook	37	Gillespie	1		5	6	Ankle broken, falling coal	56
7	Frank Baker	38	Witt	1				Body injured, kicked by mule	39
9	Joseph Firth	42	Gillespie	1		8	9	Arm broken, falling coal	56
13	Ben Veast	32	Witt	1			1	Body injured, falling coal	60
13	Dom Weber	28	Gillespie	1	1			Ankle injured, fell down	54
15	William Gilbraith	30	do	1		1	2	Ankle injured, falling clod	68
20	Anton Butkiis	43	Greenridge	1				Hand injured, falling clod	60
21	Gerhard Wilkins	40	Mt. Olive	1		5	6	Head injured, falling slate	*
23	Steve Phillips	23	do	1				Foot broken, falling coal	60
26	Jess Havron	28	do	1		3	4	Body burned, gas explosion	74
29	Jas. Hopley	22	Witt	1				Leg broken, pit car	90
29	John Marine	30	do	1				Foot injured, falling slate	37
Dec. 5	Tom Bellowelt	47	Mt. Olive	1		9	8	Ankle injured, struck with pick	34
7	Roy Stewart	23	Witt	1		2	2	Ribs broken, pit car	77
7	Simon Massolumas	35	do	1		2	3	Finger broken, falling prop	33
7	John Sendietlo	22	White City	1	1			Hand injured, pit car	61
8	Louis Valerio	38	Gillespie	1		6	7	Shoulder injured, falling prop	30
9	Dave Hudson	38	Virden	1				Leg injured, pit car	42
12	John Connors	40	Farmersville	1			2	Foot injured, falling rock	30
12	Wm. D. Neil	52	Staunton	1		4	5	Ankle injured, fell down	35
17	Max Scholcher	25	White City	1			2	Arm broken, pit car	235
19	Thos. White	33	do	1		2	3	Body injured, falling coal	69
19	Joe Badnoratk	19	Girard	1				Foot injured, pit car	30
26	Grant Carlock	45	Hillsboro	1		3	4	Ankle broken, machine	49
30	Lawrence German	45	Mt. Olive	1		1	2	Leg broken, falling coal	210
1912.									
Jan. 2	Joe Simmons	28	Benld	1				Leg injured, pit car	36
4	Thos. Curry	24	Sawyer ville	1				Body injured, falling coal	30
4	Edward Keenan	26	Panama	1				Ankle broken, pit car	90
15	Hy Schrader	21	Mt. Olive	1			1	Leg broken, falling coal	148
16	Joe J. Novak	35	Panama	1		6	7	do	240
16	Frank Reginold	21	Mt. Olive	1				Leg injured, pit car	34
20	W. J. Jamison	29	Nokomis	1		2	3	Body injured, pit car	108
20	Melekusch, J.	34	Girard	1				Eye injured, flying sulphur	*
25	Steven Yonsick	43	do	1				Body injured, falling coal	90
29	C. Moseus	44	Virden	1				Hand injured, falling slate	30
30	Gottfried Glur	60	Girard	1		3	4	Arm broken, falling prop	40

Non-fatal casualties—Seventh District—Concluded.

Date.	Name.	Residence.	Age.	Married.	Single.	Children.	Dependents.	Character of injury and cause of accident	Time lost—days.
Feb.	8 Ernest Viehweg	22 Mt. Olive	1				1	Hand injured, falling ice	36
	9 Henry Spellisey	17 Witt	1					Wrist broken, pit car	60
	14 John Mitchell	22 Panama	1					Shoulder broken, pit car	200
	19 Henry Nagli	35 do.	1					Leg injured, falling slate	90
	26 Arch Lewey	20 Coffeen	1				1	Foot injured, pit car	30
	26 Ceasar Longo	30 Gillespie	1		1		2	Leg broken, motor	31
	26 Stanley White	25 do.	1					Body injured, pit car	*
Mar.	1 Ben Robson	17 Coffeen	1					Leg broken, falling slate	*
	2 Hy Sandner	27 Mt. Olive	1					Body injured, pit car	101
	8 Joe Fegak	30 Panama	1					Pelvis bone broken, falling clod	*
	12 John Sweeney	35 do.	1				1	Foot injured, machine	180
	15 John Worthington	35 Witt	1		2		3	Leg injured, falling coal	60
	15 Dominick Rossetti	30 Panama	1					Rib broken, falling coal	60
	19 Tony Santovica	40 do.	1				1	Foot injured, falling coal	60
	29 Thos. Lewis	30 do.	1					Pelvis bone broken, cage	150
May	17 Wm. Evans	38 do.	1				4	Leg broken, falling coal	90
	27 Daniel Ivers	55 Mt. Olive	1		14		9	Hand injured, falling slate	67
June	1 Fred Freezealand	21 Panama	1		2		3	Jaw broken, pit car	75
	4 Nick Moore	26 Mt. Olive	1		2		3	Foot broken, pit car	33
	17 Herb Foudi	17 Panama	1					Face and arms burned, gas explosion	45
	25 Joe Pok	22 do.	1					Hand injured, falling prop	30
	Total			48	36	136	169		

* Not returned to work July 1, 1912.

Total number injured..... 84

Not returned to work July 1, 1912..... 10

Number returned..... 74

Time lost by men returned to work—days..... 5,198

Average days lost..... 70.24

Recapitulation of non-fatal casualties—Seventh District—1912.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Benld.	2	Cagers.	4	Cage	9	Burnwell	5
Coffeen	2	Coupler	1	Falling clod	4	Clover Leaf	2
Farmersville	1	Drivers	17	Falling coal	23	Consolidated	11
Gillespie	10	Fireman	1	Falling ice	1	Girard	4
Girard	6	Laborers	6	Falling props	2	4 Hillsboro	2
Greenridge	3	Loaders	12	Falling rock	1	Madison Corp	11
Hillsboro	2	Machine runner	5	Falling slate	7	Peabody	12
Mt. Olive	18	Mine examiner	1	Fell down	2	Royal	1
Nokomis	9	Mine manager	1	Flying steel	1	Shoal Creek	14
Panama	14	Miners	33	Flying sulphur	1	Superior	15
Sawyer ville	3	Timberman	1	Gas explosion	2	Vivian	7
Staunton	1	Trappers	2	Machine	2		
Vir den	2			Motor	1		
White City	3			Mule	1		
Witt	8			Mule, kicked by	1		
				Pick	1		
				Pit cars	23		
Total	84		84		84		84

Recapitulation of non-fatal casualties, nature of injuries, conjugal relations and time lost—Seventh District—1912.

Nature of injuries.	Number.	Married.	Single.	Children.	Dependents.	Time lost—days.		Percent- age of injuries.
						Total.	Average.	
Ankles broken.....	3	2	1	8	10	230	76.67	3.57
Ankles injured.....	5	4	1	19	21	224	44.80	5.95
Arms broken.....	5	3	2	14	19	420	84.00	5.95
Backs injured.....	2	2		1	3	106	53.00	2.38
Body burned.....	1	1		3	4	74	74.00	1.19
Bodies injured.....	10	6	4	15	13	586	65.11	11.91
Collar bone broken.....	1	1		1	1	45	45.00	1.19
Eyes injured.....	2		2			34	34.00	2.38
Face and arms burned.....	1		1			45	45.00	1.19
Feet broken.....	4	2	2	5	7	301	75.25	4.76
Feet injured.....	8	5	3	7	13	440	55.00	9.53
Fingers broken.....	1	1		2	3	33	33.00	1.19
Fingers injured.....	1	1			1	63	63.00	1.19
Hands injured.....	7	3	4	14	10	321	45.86	8.33
Heads injured.....	4	3	1	8	11	243	81.00	4.76
Jaw broken.....	1	1		2	3	75	75.00	1.19
Legs broken.....	12	8	4	21	30	995	124.37	14.29
Legs injured.....	8	2	6	2	6	352	58.67	9.53
Pelvis bone broken.....	2		2			150	150.00	2.38
Ribs broken.....	3	2	1	8	7	171	57.00	3.57
Shoulder broken.....	1		1			200	200.00	1.19
Shoulder injured.....	1	1		6	7	30	30.00	1.19
Wrist broken.....	1		1			60	60.00	1.19
Total.....	84	48	36	136	169	5,198	70.24	100.00

Calhoun County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
LOCAL MINES.						
1	Calhoun Clay Product Co.....	Golden eagle...	1,660			1,660

Mines reported for 1911, 1.
Mines in 1912, 1.

Greene County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
LOCAL MINE.						
1	Kincaid and Mitchell.....	Greenfield	200	5,000	200	5,400

Mines reported for 1911, 1.
Mines in 1912, 1.

Jersey County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
LOCAL MINE.						
1	Cairns and Bott.....	Brighton		800		800

Mines reported for 1911, 1.
Mines in 1912, 1.

Macoupin County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	Superior Coal Co., No. 3.....	Gillespie.....	664, 111		173, 868	837, 979
2	Superior Coal Co., No. 2.....	do.....	632, 841		158, 994	791, 835
3	Superior Coal Co., No. 1.....	do.....		530, 440	143, 277	673, 717
4	Consolidated Coal Co., No. 14.....	Staunton.....	104, 977	238, 104	191, 404	534, 485
5	Consolidated Coal Co., No. 15.....	Mt. Olive.....	34, 001	254, 401	171, 714	460, 116
6	Royal Colliery Co., No. 1.....	Viriden.....	23, 722	109, 032	230, 061	362, 815
7	Girard Collieries Co., No. 5.....	Girard.....	60, 627	106, 082	96, 803	263, 512
8	Madison Coal Corporation, No. 5.....	Mt. Olive.....	168, 081	53, 384	31, 420	252, 885
9	Vivian Collieries Co., Green Ridge.....	Greenridge.....	36, 956	68, 919	120, 625	226, 500
10	Glenridge Coal Co., No. 1.....	Viriden.....	68, 396	70, 974	72, 726	212, 096
11	Consolidated Coal Co., No. 8.....	Mt. Olive.....	114, 447	39, 303	13, 143	166, 893
12	Carlville Coal Co.....	Carlville.....	8, 229	41, 734	26, 976	76, 939
13	Ill. Central Fuel Co., No. 1.....	Nilwood.....	15, 425	10, 285	5, 140	30, 850
Total.....			1, 267, 702	2, 186, 769	1, 436, 151	4, 890, 622
LOCAL MINES.						
1	Wm. Neil.....	Bunker Hill.....	17, 474			17, 474
2	Ed. A. Bauser.....	do.....	804	2, 113	1, 193	4, 110
3	John Sipora.....	Chesterfield.....		800	4	804
4	Abbott T. Jarden.....	Bunker Hill.....		40		40
Total.....			18, 278	2, 953	1, 197	22, 428
Total—17 mines.....			1, 285, 980	2, 189, 722	1, 437, 348	4, 913, 050

Mines reported for 1911, 17.
Mines in 1912, 17.

Seventh District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Accidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
.....	800	.....	200	2	1	3	800	.....	.....	.....	.....	.....	.....	1

Seventh District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Accidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
821,678	16,301	4,163	229	.....	601	601	837	979	.....	4	U. C.	.....	.....	38
777,263	14,572	4,000	228	.....	553	553	791,835	.....	2	5	do.	.....	.....	29
654,268	19,449	4,577	225	.....	562	562	673,717	.....	2	6	do.	.....	.....	31
494,314	40,171	3,472	199	.....	500	500	534,485	.....	1	1	do.	.....	.....	29
415,048	42,068	2,657	198	.....	415	415	460,116	.....	.....	7	do.	.....	.....	29
331,584	31,231	6,010	186	200	180	380	362,815	.....	4	1	do.	.....	.....	26
251,599	11,913	12,285	166	260	60	320	263,512	.....	.....	4	Solid.	.....	.....	20
224,790	28,095	1,268	189	.....	299	299	252,885	.....	11	11	U. C.	.....	.....	19
220,672	5,828	10,508	228	190	84	274	219,288	.....	1	7	Both.	.....	.....	15
192,946	19,150	3,110	161	158	129	287	7,224	204,872	.....	1	do.	.....	.....	17
113,310	53,583	854	182	.....	209	209	166,893	.....	.....	3	U. C.	.....	.....	12
52,977	23,962	4,080	195	79	29	108	76,939	.....	.....	.....	Solid.	.....	.....	22
26,800	4,050	1,550	61	89	53	142	30,850	.....	.....	.....	do.	.....	.....	13
4,580,249	310,373	58,534	188	976	3,674	4,650	597,813	4,292,809	11	49	.....	.....	.....	300
.....
.....	17,474	50	210	10	3	13	.....	17,474	.....	.....	.....	.....	.....	1
.....	4,110	128	267	5	6	11	4,110	.....	.....	.....	.....	.....	.....	2
.....	804	.....	100	4	1	5	804	.....	.....	.....	.....	.....	.....	3
.....	40	3	60	1	1	2	40	.....	.....	.....	.....	.....	.....	4
.....	22,428	181	159	20	11	31	4,954	17,474	.....	.....	.....	.....	.....	.....
4,580,249	332,801	58,715	181	996	3,685	4,681	602,767	4,310,281	11	49	.....	.....	.....	300

Montgomery County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	Shoal Creek Coal Co., No. 1.....	Panama.....	2,541	198,840	205,644	407,025
2	Peabody Coal Co., No. 14.....	Witt.....	125,666	137,007	104,264	366,937
3	Montgomery Co. Coal Co., T. Springs.....	Hillsboro.....	39,200	130,000	160,022	329,222
4	Hillsboro Coal Co., Hillsboro.....	do.....	20,516	109,454	163,649	293,619
5	Burnwell Coal Co., No. 1.....	Witt.....	92,165	106,762	78,088	277,015
6	Kortkamp Coal Co., Kortkamp.....	Hillsboro.....	220,256	220,256	2,000	222,256
7	Clover Leaf M. Co., No. 2.....	Coffeen.....	2,156	68,908	63,183	134,247
8	Peabody Coal Co., No. 10.....	Nokomis.....	89,587	16,204	5,689	111,480
9	Farmersville C. M. Co.....	Farmersville.....	8,543	48,330	37,617	94,490
10	Litchfield Coal Co., No. 7.....	Litchfield.....	160	21,690	22,200	44,050
Total—10 mines.....			380,534	1,057,451	842,356	2,280,341

Mines reported for 1911, 10.

Mines in 1912, 10.

Shipping mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons.						Total.	Disposition of out-put—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
Macoupin	13	1,267,702	2,186,769	174,026	50,572	332,808	878,745	4,890,622	4,580,249	310,373
Montgomery ..	10	380,534	1,057,451	288,308	66,762	474,208	13,078	2,280,341	2,179,726	100,615
Total	23	1,648,236	3,244,220	462,334	117,334	807,016	891,823	7,170,963	6,759,975	410,988

Seventh District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Accidents.		Blasting coal—from solid or undercut or both.	Number of animals under ground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
388,612	18,413	7,231	222	426	426	407,025	3	14	U. C.		22	1		
359,006	7,931	3,345	201	300	90	390	366,937	1	4	do.	10	15	2	
319,222	10,000	2,750	175		438	438		329,222	3	2	do.	11	3	
274,129	19,490	2,442	228	126	92	218		293,619	3	5	do.	18	4	
269,360	7,655	2,170	145	245	88	333	277,015			5	Solid.	10	30	
219,492	2,764	1,096	167		280	280		222,256			U. C.	29	6	
124,462	9,785	6,712	171	148	67	215	126,124	8,123	1	2	Both.	11	7	
107,152	4,328	831	179	45	92	137	60,039	51,441	1	8	U. C.	10	8	
87,644	6,846	4,420	98	114	46	160	94,490				Solid.	9	9	
30,647	13,403	1,828	180	50	25	75	44,050				do.	7	10	
2,179,726	100,615	32,825	177	1,028	1,644	2,672	968,655	1,311,686	12	35		20	162	

counties—Seventh District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees.						Tons mined.		Blasting coal.		
		Underground.			All above ground.	Total.	By hand.	By machine.	From solid—tons.	Undercut—tons.	Both methods—tons.	
		Miners.	Boys.	Others.								
58,534	188	976	3,210	119	345	4,650	597,813	4,292,809	371,301	4,292,821	226,500	
32,825	177	1,028	1,388	30	226	2,672	968,655	1,311,686	415,555	1,730,539	134,247	
91,359	183	2,004	4,598	149	571	7,322	1,566,468	5,604,495	786,856	6,023,360	360,747	

Local mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons.						Total.	Disposition of out-put—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
Calhoun.....	1	1,660	.....	.....	.....	.....	.....	1,660	.....	1,660
Greene.....	1	200	5,000	.....	.....	.....	200	5,400	.....	5,400
Jersey.....	1	.....	800	.....	.....	.....	.....	800	.....	800
Macoupin.....	4	18,278	2,953	.....	.....	.....	1,197	22,428	.....	22,428
Total.....	7	20,138	8,753	.....	.....	.....	1,397	30,288	.....	30,288
The District...	30	1,668,374	3,252,973	462,334	117,334	807,016	893,220	7,201,251	6,759,975	441,276

Whole number of mines reported for 1911, 30.

Whole number of mines reported for 1912, 30.

All mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons.						Total.	Disposition of out-put—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
Calhonn.....	1	1,660	.....	.....	.....	.....	.....	1,660	.....	1,660
Greene.....	1	200	5,000	.....	.....	.....	200	5,400	.....	5,400
Jersey.....	1	.....	800	.....	.....	.....	.....	800	.....	800
Macoupin.....	17	1,285,980	2,189,722	174,026	50,572	332,808	879,942	4,913,050	4,580,249	332,801
Montgomery..	10	380,534	1,057,451	288,308	66,762	474,208	13,078	2,280,341	2,179,726	100,615
Total.....	30	1,668,374	3,252,973	462,334	117,334	807,016	893,220	7,201,251	6,759,975	441,276

counties—Seventh District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees.					Tons mined.		Blasting coal.		
		Underground.			All above ground.	Total.	By hand.	By machine.	From solid—tons.	Undercut—tons.	Both methods—tons.
		Miners.	Others.	Boys.							
.....	200	6	.....	.....	4	10	1,660	.....	.....	.....	.....
200	200	8	1	.....	2	11	5,400	.....	.....	.....	.....
.....	200	2	.....	.....	1	3	800	.....	.....	.....	.....
181	159	20	.....	.....	11	31	4,954	17,474	.....	.....	.....
381	177	36	1	.....	18	55	12,814	17,474	.....	.....	.....
91,740	148	2,040	4,599	149	589	7,377	1,579,282	5,621,969	.....	.....	.....

counties—Seventh District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees.					Tons mined.		Blasting coal.		
		Underground.			All above ground.	Total.	By hand.	By machine.	From solid—tons.	Undercut—tons.	Both methods—tons.
		Miners.	Others.	Boy.							
.....	200	6	.....	.....	4	10	1,660	.....	.....	.....	.....
200	200	8	1	.....	2	11	5,400	.....	.....	.....	.....
.....	200	2	.....	.....	1	3	800	.....	.....	.....	.....
58,715	181	996	3,210	119	356	4,681	602,767	4,310,283	.....	.....	.....
32,825	177	1,028	1,388	30	226	2,672	968,655	1,311,686	.....	.....	.....
91,740	148	2,040	4,599	149	589	7,377	1,579,282	5,621,969	.....	.....	.....

EIGHTH INSPECTION DISTRICT—1912.

ANNUAL REPORT.

Counties—Bond, Clinton, Madison, Marion.

W. L. MORGAN, *Inspector*, E. St. Louis.

Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield:

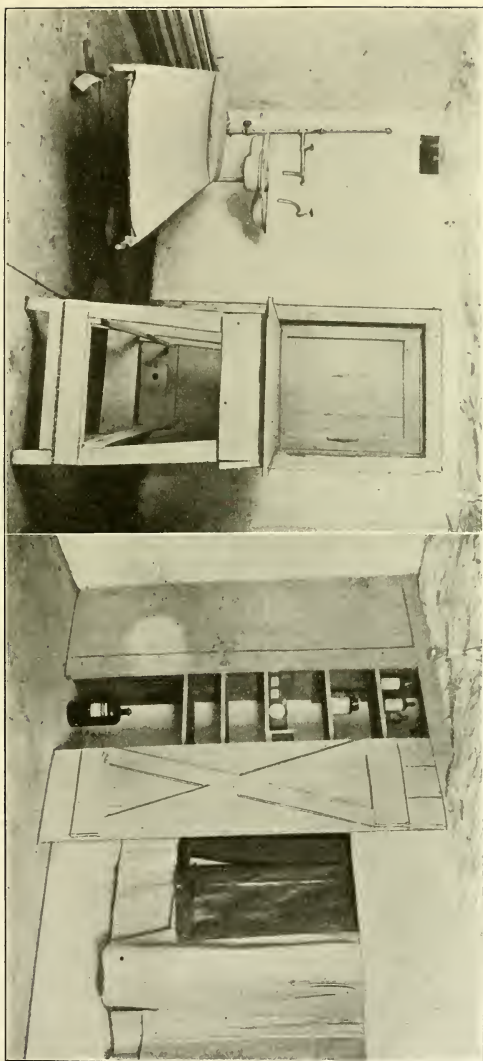
SIR—Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing counties of Bond, Clinton, Madison and Marion.

SUMMARY OF THE ITEMS SHOWN IN THE REPORT.

Number of counties producing coal.....	4
Number of shipping mines.....	29
Number of local mines.....	11
Number of new or reopened mines.....	3
Number of closed or abandoned mines.....	4
Number of miners.....	2,452
Others underground, men.....	4,141
Boys underground.....	142
Boys above ground.....	7
Others above ground.....	673
Total number of employees.....	7,415
Total tons of coal produced.....	5,854,645
Days of active operation, all mines.....	172
Kegs of powder used for blasting coal.....	112,455
Tons of coal shipped.....	5,280,799
Tons supplied to locomotives.....	210,959
Tons sold to local trade.....	155,437
Tons consumed and wasted at the mines.....	207,450
Number of fatal accidents.....	20
Number of non-fatal accidents.....	108
Number of employees to each fatal accident.....	371
Number of employees to each non-fatal accident.....	69
Tons of coal produced to each fatal accident.....	292,732
Tons of coal produced to each non-fatal accident.....	54,210
Ratio of fatal accidents per 1,000 employees.....	2.70

The following table shows the output by counties for the years ended June 30, 1911 and 1912, with the increase or decrease:

Counties.	Total output—tons.		Increase.	Decrease.
	1911.	1912.		
Bond.....	144,824	183,180	38,356	.....
Clinton.....	1,000,536	1,012,982	12,446	.....
Madison.....	3,766,002	3,454,536	.....	311,466
Marion.....	1,134,377	1,203,947	69,570	.....
Total.....	6,045,739	5,854,645	120,372	311,466
Net decrease.....	.....	.....	.....	191,094



Underground Hospital at Donk Bros. No. 1 Mine.

NEW AND ABANDONED MINES.

Three mines, in local trade only, have been opened and four mines abandoned or not operated during the year.

CHANGE IN NAMES.

The George Luman mine, near Moro, Madison County, has been sold to George Kabel, who is operating it under the name of Kabel mine.

The Klondyke mine, near Prairietown, Madison County, has been purchased by Hardin and Stiegmeier. The name of the mine remains unchanged.

The St. Louis and Illinois Coal Company's mine at Edwardsville is now being operated by W. S. Walker and known as the Henrietta mine.

MINE FIRES.

On the night of February 5th, the engine house, generator room, and boiler room were burned down at the mine of the North Breese Coal and Mining Company, Breese, Clinton County. At the present time it is completely repaired. The wooden flooring of the engine house, except about the engines, is replaced by granitoid.

I am pleased to report the erection and putting in use of an underground hospital at the Donk Bros. Coal and Coke Company's No. 1 mine. It is built of concrete throughout, is 7 feet high by 13x14 feet. It is steam-heated and has hot and cold water. The temperature is kept at 90°. It is furnished with an operating table, the first aid appliances, with necessary blankets, kept in cupboard conveniently arranged, and is equipped with electric lights. The two stretchers are also kept here. In the two cases in which it has been tested it has fully met the expectations of its promoters. I believe this is the first underground hospital in the State. Mr. Wilson and the Donk Bros. Coal and Coke Company certainly deserve great credit for being the forerunners in improving mining conditions in this particular regard.

IMPROVEMENTS.

Donk Bros. Coal and Coke Company has spent about \$15,000.00 in improving the fifth east entry of the No. 2 mine and have installed a 1,500 H. P. Cochran water heater.

At the No. 3 mine a 5 foot Stine Booster fan, operated by electricity, has been installed and is doing good work. Before this fan was put in the air was very poor.

The City Coal Company of Edwardsville, has made a decided improvement in the main air course of its mine, which should greatly improve the ventilation. The company has retimbered the escape shaft, and partly retimbered the hoisting shaft, and repaired the boilers. This mine was a year ago considered in poor condition, but is now operated by Herzogg-Gears & Co., and it must be said to their credit that they have improved the condition of the mine to no small degree.

Lumaghi Coal Company at the No. 2 mine, at Collinsville, is enlarging the main air course to a minimum of at least 50 square feet, in order to increase the ventilation. Six electric coal mining machines, one Sullivan continuous cutter and five Jeffreys' continuous cutters, have been put in.

Madison Coal Corporation has made extensive improvements at No. 2 and No. 4 mines. At No. 4 mine a sump lined throughout with concrete, to contain three months' water, has been made, air courses enlarged, haulage roads improved and refuge places made larger.

At the No. 2 mine a sump to contain three months water, lined throughout with concrete, has been made, air courses enlarged, haulage roads improved, and installed a Jeffreys' Booster fan, 3 feet 6 inches by 2 feet 3 inches double inlet, with noiseless chain drive operated by a 50 horse power motor. The

fan is guaranteed to produce 65,000 cubic feet of air against a 2½ inch water gauge. The installation of this fan has made a fine improvement in the ventilation of that part of the mine.

Seven thousand dollars has been spent in putting up new buildings and a retaining wall.

This company has furnished for No. 2 and No. 4 mine, a complete set of mine rescue apparatus for each mine, including helmets, oxygen tanks, pulmotors, etc. It is to be hoped that other companies will follow this example, so that in the event they should be wanted, when minutes will be precious, they will be ready for use, and save the time of waiting for the mine rescue party with their equipment from the State rescue stations.

There is a mine rescue and first aid team, composed of the employees of the Madison Coal Corporation, at Glen Carbon. It is fine to see this spirit of coöperation among the operators and employees. The spirit which this company has shown in bringing mines No. 2 and No. 4 to a first-class condition is commendable.

The Breese-Trenton Mining Company, at the East mine, has put in a complete new head gearing and a water heater for the boilers.

At the Buxton mine, fine and extensive improvements underground have been made. The bottom is in fine shape. The low timbers taken out, the height increased about 3 feet, securing the roof by steel eye beams, resting on steel eye props, these in turn resting on a concrete foundation. Haulage roads on both sides have been cleaned. The twenty pound rails of the main haulage roads on one side of the shaft have been replaced by thirty pound rails, preparatory to putting in a motor.

The Consolidated Coal Company has put in at the West mine, Breese, a new stairway in the escapement shaft.

Marion County Coal Company has erected a new brick smoke stack with base 22 feet, height 151 feet, and top 6 feet; two new boilers, O'Brien make, 72 inches by 18 feet has been installed.

TEMPORARY SUSPENSION OF MINES.

Lumaghi Coal Company has closed No. 3 mine at Collinsville, for the purpose of making repairs, such as erecting a new fan which is capable of producing twice the quantity of air produced by the present one; cleaning out air courses, and making preparations to have the present underground workings extended through the old and abandoned workings of a mine known as the Heinz Bluff mine. A new boiler has also been installed.

The Mt. Olive & Staunton Coal Company temporarily closed mine No. 1, for the purpose of improving and strengthening the pit tower, retimbering a part of the hoisting shaft, repairing the dynamo, putting in a new track scale, and the building of a new smoke stack.

FATAL ACCIDENTS.

July 11, 1911, Ernest Cole, driver, aged 26 years, married, employed at the Buxton mine of the Breese-Trenton Mining Company, Breese, Clinton County, was killed by pit cars. He leaves a widow and one child.

July 20, 1911, Frank Campbell, laborer, aged 56 years, married, was caught between the cage and timber and killed. Deceased was employed in the Northern Coal and Supply Co.'s mine, Sorento, Bond County. He leaves a widow and three children.

August 28, 1911, Steve Eskochin, driver, aged 18 years, single, was killed by pit cars in the Mt. Olive and Staunton Coal Company's mine No. 2, Staunton, Madison County.

September 14, 1911, Bert Rico, machine helper, aged 28 years, single, employed at New Staunton Coal Company's mine, Livingston, Madison County, was killed by falling coal.

September 20, 1911, John Mygatt, miner, aged 48 years, married, was killed by falling coal in No. 9 mine of Southern Coal and Mining Co., New Baden, Clinton County. He leaves a widow and two children.

October 11, 1911, John Markhefka, miner, aged 41 years, married, was killed in the New Staunton Coal Company's mine, Livingston, Madison County, by a fall of slate. He leaves a widow and one child.

October 27, 1911, A. V. Strong, trip rider, aged 31 years, married, employed at Donk Bros. Coal and Coke Co.'s, No. 3 mine, Troy, Madison County, was killed by pit cars. He leaves a widow and one child.

November 6, 1911, Bartolets Matench, miner, aged 49 years, married, was killed by falling slate in the New Staunton Coal Co.'s mine, Livingston, Madison County. He leaves a widow and one child.

November 17, 1911, Charles Zamelus, machine runner, aged 45 years, married, employed by New Staunton Coal Co., Livingston, Madison County, was killed by falling slate. He leaves a widow and three children.

December 27, 1911, John Gusansinski, miner, aged 47 years, married, was killed by falling coal in the Southern Coal and Mining Co.'s No. 9 mine, New Baden, Clinton County. He leaves a widow and three children.

January 6, 1912, James Madalone, miner, aged 27 years, married, was killed in the mine of the DeCamp Coal Mining Co., Staunton, Madison Co., by a fall of rock. He leaves a widow and one child.

January 29, 1912, James Haning, miner, aged 37 years, married, employed in the New Staunton Coal Co.'s mine, Livingston, Madison County, was killed by falling slate. He leaves a widow and three children.

February 6, 1912, Barney Cavallo, miner, aged 37 years, single, was killed by falling slate in Lumaghi Coal Co.'s mine No. 2, Collinsville, Madison County.

March 13, 1912, Frank Dearing, machine helper, aged 36 years, married, was killed by falling coal in the Mt. Olive and Staunton Coal Co.'s No. 2 mine, Staunton, Madison County. He leaves a widow and five children.

March 13, 1912, Henry Harnering, miner, aged 63 years, married, was killed in the Home Trade Coal Co.'s mine, Edwardsville, Madison County, by falling clod. He leaves a widow and seven children.

March 17, 1912, Philip Simburger, miner, aged 26 years, married, was killed by a powder explosion in the mine of the DeCamp Coal Co., Staunton, Madison County. He leaves a widow and three children.

March 26, 1912, Louis Albie, laborer, aged 70 years, married, employed in the Lumaghi Coal Co.'s No. 2 mine, Collinsville, Madison County, was killed by a fall of slate. He leaves a widow and four children.

March 26, 1912, Douglas Umpleman, miner, aged 48 years, married, was killed by falling clod in the DeCamp Coal Mining Co.'s mine, Staunton, Madison County. He leaves a widow and one child.

March 28, 1912, Samuel Keene, machine runner, aged 28 years, single, was killed in the Lumaghi Coal Co.'s mine, Collinsville, Madison County, by falling coal.

June 26, 1912, John Patretto, trip rider, aged 33 years, married, was killed by pit cars in Donk Bros. Coal and Coke Co.'s mine, Collinsville, Madison County. He leaves a widow and two children.

Respectfully submitted,

W. L. MORGAN,

State Inspector of Mines, Eighth District, R. R. 2, E. St. Louis, Ill.

Fatal casualties—Eighth District—June 30, 1912.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Single.	Widow.	Children.	Dependents.	Cause of death.
1911.										
July 11	Ernest Cole.....	26	Driver.....	Carlyle.....	1	1	1	2		Pit car.....
20	Frank Campbell.....	56	Laborer.....	Sorento.....	1	1	3	4		Cage.....
Aug. 28	Steve Eskochin.....	18	Driver.....	Williamson.....	1	1				Pit car.....
Sept. 14	Bert Rico.....	28	Machine helper.....	Livingston.....	1	1				Falling coal.....
20	John Mygatt.....	48	Miner.....	New Baden.....	1	1	2	3		do.....
Oct. 11	John Marhefka.....	41	do.....	Williamson.....	1	1	1	2		Falling slate.....
27	A. V. Strong.....	31	Trip rider.....	Troy.....	1	1	1	2		Pit car.....
Nov. 6	Bartolado Malench.....	49	Miner.....	Livingston.....	1	1	1	2		Falling slate.....
17	Chas. Zameletees.....	45	Machine runner.....	do.....	1	1	3	4		do.....
Dec. 27	John Guarnsinski.....	47	Miner.....	New Baden.....	1	1	3	4		Falling coal.....
1912.										
Jan. 6	James Madalone.....	27	do.....	De Camp.....	1	1	1	2		Falling rock.....
29	Jas. Haning.....	37	do.....	Staunton.....	1	1	3	4		Falling slate.....
Feb. 6	Barney Cavallo.....	37	do.....	Collinsville.....	1	1				do.....
Mar. 13	Frank Dearing.....	36	Machine helper.....	Staunton.....	1	1	5	6		Falling coal.....
13	Henry Harnnering.....	63	Miner.....	Edwardsville.....	1	1	7	1		Falling clod.....
17	Philip Simburger.....	26	do.....	Staunton.....	1	1	3	4		Powder explosion.....
26	Louis Albie.....	70	Laborer.....	Collinsville.....	1	1	4	1		Falling slate.....
26	Douglas Uempleman.....	48	Miner.....	Staunton.....	1	1	1	2		Falling clod.....
28	Samuel Keene.....	28	Machine runner.....	Collinsville.....	1	1				Falling coal.....
June 26	John Patrette.....	33	Trip rider.....	do.....	1	1	2			Pit car.....
	Total.....				15	5	15	41	45	

Recapitulation of fatal casualties—Eighth District—1912.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Carlyle.....	1	Drivers.....	2	Cage.....	1	Breese-Trenton.....	1
Collinsville.....	4	Laborers.....	2	Falling clod.....	2	DeCamp.....	3
DeCamp.....	1	Machine helpers.....	2	Falling coal.....	5	Donk Bros.....	2
Edwardsville.....	1	Machine runner.....	2	Falling rock.....	1	Edwardsville Home Trade.....	1
Livingston.....	3	Miners.....	10	Falling slate.....	6	Lumaghi.....	3
New Baden.....	2	Trip riders.....	2	Pit cars.....	4	Mt. Olive & Staunton.....	2
Sorento.....	1			Powder explosion.....	1	New Staunton.....	5
Staunton.....	4					Northern Coal & Supply.....	1
Troy.....	1					Southern.....	2
Williamson.....	2						
Total.....	20		20		20		20

Non-fatal casualties—Eighth District—June 30, 1912.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents.	Character of injury and cause of accident.	Time lost—days.
1911.									
July	3 Richard Davies.....	26	Glen Carbon.....	1				Body injured, pit car.....	41
	11 George Nowokitius.....	40	Collinsville.....	1				Hand injured, flying plug.....	47
	15 Oscar Rother.....	16	Troy.....	1				Toe injured, pit car.....	30
	17 P. Grannon.....	25	do.....	1				Back broken, falling slate.....	*
	19 Joe Banbonx.....	28	New Baden.....	1				Collar bone broken, pit car.....	38
	22 M. B. Hay.....	25	Troy.....	1				Body injured, pit car.....	60
	25 Geo. Giles.....	28	Collinsville.....	1				Pelvis bone broken, pit car.....	*
	26 Andy Frankfort.....	47	Worden.....	1	4	4	4	Leg broken, falling slate.....	38
	27 Dave Llewelyn.....	47	Collinsville.....	1	2	3	3	Arm injured, falling slate.....	60
	27 Mike Polinsky.....	19	Livingston.....	1				Arm broken, pit cars.....	43
Aug.	2 Jas Mazzano.....	35	Maryville.....	1				Ankle injured, falling coal.....	49
	10 Wm. Andrika.....	32	Glen Carbon.....	1	2	3	3	Eye injured, flying coal.....	66
	11 V. Brindle.....	16	Troy.....	1				Toe injured, pit car.....	30
	11 Louis Perman.....	24	Livingston.....	1				Leg broken, pit car.....	120
	12 Richard Wieseman.....	24	Collinsville.....	1				Foot injured, falling slate.....	37
	14 Hy Kleber.....	48	Breese.....	1	3	3	3	Leg injured, flying coal.....	30
	16 John Bozards.....	36	Collinsville.....	1	5	6	6	Body injured, motor.....	60
	19 S. W. Voelker.....	55	Troy.....	1	2	3	3	Hand injured, coal falling down shaft.....	60
	24 Joe Polka.....	16	Staunton.....	1				Leg injured, fell down.....	55
	28 Walter Witte.....	25	Collinsville.....	1	2	3	3	Finger injured, railroad car.....	3
	22 Addison Clanton.....	20	Pocahontas.....	1				Leg injured, pit car.....	40
	31 J. Bonaski.....	60	Collinsville.....	1	3	1	1	Back injured, falling slate.....	47
Sept.	2 Tom Miller.....	30	do.....	1				Foot injured, switch.....	160
	5 Dan Turnerline.....	40	do.....	1	1	2	2	Arm broken, coal fell down shaft.....	55
	7 Tom Moglick.....	31	Livingston.....	1	1	2	2	Leg broken, falling coal.....	180
	7 Jas. McGuire.....	36	Breese.....	1				Collar bone broken, pit cars.....	40
	9 Geo. Poelker.....	do.....	do.....	1				Collar bone broken, falling box.....	90
	19 Frank Mlekus.....	32	Livingston.....	1				Arm injured, falling slate.....	43
	19 Harry Otto.....	21	Collinsville.....	1				Back injured, falling clod.....	35
	22 V. Bartolli.....	35	Troy.....	1				Collar bone broken, pit car.....	80
Oct.	6 Grover Bird.....	23	Staunton.....	1				Finger injured, pit car.....	41
	7 Chas. Heck.....	61	Glen Carbon.....	1	5	3	3	Fingers cut off, falling slate.....	50
	19 John Spok.....	17	Staunton.....	1				Ankle injured, fell down.....	32
	19 Nick Yost.....	48	Glen Carbon.....	1	2	3	3	Fingers injured, pick.....	49
	21 Douglas Phillips.....	38	Odin.....	1	3	4	4	Eyes destroyed, powder explosion.....	*
	26 Chas. Gregory.....	20	Centralia.....	1				Foot cut off, pit car.....	150
	26 A. Menillo.....	40	Troy.....	1				Ribs broken, falling slate.....	90
Nov.	30 B. Chomossi.....	36	Collinsville.....	1	4	5	5	Finger injured, falling coal.....	45
	9 Wm. Bour.....	38	Troy.....	1				Body injured, falling slate.....	60
	14 Chas. Morgands.....	33	Collinsville.....	1				Foot injured, falling coal.....	43
	20 Pet Goldich.....	20	Livingston.....	1				Finger injured, coal and prop.....	78
	28 John Amerson.....	28	Glen Carbon.....	1				Body injured, motor.....	173
Dec.	2 John Wilfing.....	40	Staunton.....	1			1	Finger cut off, machine truck.....	32
	2 Paul Villane.....	41	Livingston.....	1				Finger injured, prop and pick.....	45
	8 E. Church.....	32	Centralia.....	1				Leg cut off, pit cars.....	*
	8 Aug. Carvilet.....	47	Collinsville.....	1	10	11	11	Ribs broken, falling slate.....	70
	9 Wm. Laskie.....	47	Glen Carbon.....	1	4	5	5	Leg injured, falling coal.....	33
	9 Fred Petton.....	21	Breese.....	1				Back injured, pit cars.....	173
	13 Ed Wild.....	30	Staunton.....	1	1	2	2	Leg broken, falling coal.....	209
	15 Frank Kunsstis.....	21	Livingston.....	1				Leg injured, pit car.....	76
	16 Joe Stankus.....	24	Collinsville.....	1				Ankle injured, pit car.....	30
	16 Clarence Prather.....	31	Centralia.....	1	3	4	4	Body burned, gas explosion.....	90
	22 A. Fitch.....	43	Collinsville.....	1	2	1	1	Body injured, pit car.....	44
1912.									
Jan.	4 August Ittig.....	48	Donkville.....	1	7	8	8	Body injured, engine and car.....	53
	8 Ed Isenburg.....	18	Troy.....	1				Leg injured, crossbar.....	30
	9 Her Albrich.....	35	Livingston.....	1				Rib broken, falling rock.....	45
	10 Glen Duncan.....	18	Sandoval.....	1				Body injured, kicked by mule.....	30
	12 Stanley Zannitti.....	20	Williamson.....	1				Leg broken, pit car.....	146
	16 Angelo Fazol.....	34	DeCamp.....	1				Hand injured, falling rock.....	60
	17 Ed Prah.....	38	Odin.....	1	3	4	4	Finger cut off, machine.....	60
	17 Peter Hellenthol.....	33	Staunton.....	1	3	4	4	Finger injured, falling coal.....	43
	18 Louis Albie.....	70	Collinsville.....	1	5	1	1	Head injured, falling slate.....	32
	19 Joe Marcus.....	28	Beckemeyer.....	1				Arm broken, pit car.....	49
	22 George Koehler.....	42	do.....	1	6	7	7	Leg broken, falling coal.....	90
	22 Hy DeBras.....	60	Troy.....	1			1	Foot broken, falling slate.....	36

Non-fatal casualties—Eighth District—Concluded.

Date.	Name.	Age.	Residence.	Married. Single.	Children.	Dependents.	Character of injury and cause of accident.	Time lost—days.
1912.								
Jan.	23 Ralph Davidson.....	17	Sandoval.....	1	.....	.....	Foot broken, pit car.....	33
	23 Gus Freund.....	21	Livingston.....	1	.....	.....	Leg broken falling slate.....	158
	24 Chas. Smith.....	18	Staunton.....	1	.....	1	Head injured, kicked by mule..	137
	29 John Reineke.....	27	Breese.....	1	1	2	Body injured, pit cars.....	43
Feb.	1 Dave Domenick.....	37	Williamson.....	1	4	5	Leg broken, falling rock.....	*
	1 L. Howard.....	52	Collinsville.....	1	2	3	Eye destroyed, shot explosion..	*
	5 John Stacas.....	27	Glen Carbon.....	1	3	4	Eye injured, shot explosion.....	120
	6 Oscar Hanstine.....	26	Staunton.....	1	.....	.....	Leg broken, pit car.....	100
	8 Geo. Coles.....	28	Divernon.....	1	2	3	Body injured, pit car.....	*
	9 Geo. Joseph.....	22	Collinsville.....	1	.....	.....	Fingers injured, pit car.....	30
	10 Wm. Bucknell.....	28	Beckemeyer.....	1	.....	.....	Leg injured, kicked by mule.....	30
	13 John Viskacil.....	39	Edwardsville.....	1	5	6	Body injured, falling clod.....	53
	14 Robert Schultze.....	21	Troy.....	1	.....	.....	Leg broken, pit cars.....	140
	15 Ernst Johnson.....	20	Maryville.....	1	.....	.....	Arm injured, pit car.....	53
	19 Vin Kashmarck.....	22	Staunton.....	1	.....	.....	Leg broken, falling coal.....	*
	24 Albert Hauck.....	20	Collinsville.....	1	.....	.....	Arm injured, switch.....	40
	27 Chas. Thieband.....	46	Livingston.....	1	4	5	Leg broken, falling coal.....	*
Mar.	1 M. Ratz.....	32	Maryville.....	1	3	4	Collar bone broken, falling coal.	*
	6 Pietro Del Pozzo.....	48	Williamson.....	1	8	9	Leg broken, falling coal.....	*
	13 L. Coons.....	30	Troy.....	1	1	2	Arm broken, falling slate.....	60
	13 Thomas Evans.....	46	Glen Carbon.....	1	5	5	Leg injured, pit cars.....	42
	16 Rosie Fonnigo.....	22	Staunton.....	1	.....	.....	Shoulders burned, powder exp.	80
	20 Wm. Hayes.....	23	New Baden.....	1	.....	.....	Back injured, falling coal.....	62
	21 Geo. Essenpires.....	16	Breese.....	1	.....	.....	Hand injured, kicked by mule..	*
	21 F. Dezlock.....	35	Maryville.....	1	.....	.....	Finger injured, pit car.....	*
	23 G. P. Wolf.....	23	Breese.....	1	.....	.....	Pelvisbone broken, falling coal.	49
	24 William Bach.....	42	Edwardsville.....	1	1	2	Leg injured, drill handle.....	40
	25 W. Teasel.....	26	Glen Carbon.....	1	2	3	Hand injured, machine.....	49
	25 Henry Hoppe.....	55	Edwardsville.....	1	6	6	Hand injured, falling coal.....	60
	25 E. Smiley.....	26	Maryville.....	1	1	2	Foot injured, stepped on nail...	80
	26 John Anscot.....	35	Collinsville.....	1	2	3	Body injured, falling slate.....	65
	28 Sam Kitchen.....	20	do.....	1	.....	.....	Body injured, kicked by mule..	*
May	6 L. Bom.....	30	Troy.....	1	3	4	Ankle injured, falling slate.....	60
	13 John Linkscrew.....	21	Collinsville.....	1	.....	.....	Fingers injured, pit cars.....	36
	23 Fred Hiffman.....	67	Staunton.....	1	7	3	Leg injured, falling coal from tipple.....	40
	25 Hy Beckman.....	38	Germantown.....	1	4	5	Leg broken, falling rock.....	90
	29 Steve Broderick.....	39	Maryville.....	1	.....	.....	Back injured, fell off crossbar..	*
	29 Louis Calone.....	22	Collinsville.....	1	.....	.....	Leg injured, falling prop.....	*
June	4 John Wilfung.....	40	Staunton.....	1	.....	1	Head injured, falling coal.....	*
	8 Horace Jackson.....	33	Odin.....	1	.....	1	Ankle broken, car puller rope...	*
	11 C. Krupoky.....	26	Maryville.....	1	.....	.....	Head injured, kicked by mule...	*
	13 Aug. C. Spencer.....	53	Livingston.....	1	5	3	Body injured, prop and box.....	38
	24 Sam Watts.....	40	Odin.....	1	.....	.....	Leg broken, tail chain.....	*
	Total.....			49	59	152	177	

* Not returned to work July 1, 1912.

Total number injured.....	108
Not returned to work July 1, 1912.....	21

Number returned.....	87
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Time lost by men returned to work—days.....	5,709
Average days lost.....	65.62

Recapitulation of non-fatal casualties—Eighth District—1912.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Beckemeyer.....	3	Cagers.....	4	Carpuller rope.....	1	Breese-Trenton.....	5
Breese.....	7	Carpenter.....	1	Coal and prop.....	1	Centralia.....	3
Centralia.....	3	Couplers.....	3	Coal fell down shaft..	2	Chicago-Sandoval.....	2
Collinsville.....	23	Drivers.....	30	Coal fell from tippie..	1	City.....	2
DeCamp.....	1	Engineer.....	1	Cross bar.....	1	Consolidated.....	4
Divernon.....	1	Laborers.....	7	Drill handle.....	1	DeCamp.....	3
Donkville.....	1	Loaders.....	11	Engine and car.....	1	Donk Bros.....	30
Edwardsville.....	3	Machine helper.....	1	Falling box.....	1	Edwardsville Home Trade.	1
Germantown.....	1	Mach. runners.....	6	Falling clod.....	2	Kerns-Donnewald.....	1
Glen Carbon.....	9	Miners.....	33	Falling coal.....	15	Lumagbi.....	15
Livingston.....	11	Motormen.....	2	Falling prop.....	1	Madison corp.....	8
Maryville.....	7	Timberman.....	4	Falling rock.....	4	Mt. Olive & Staunton.....	14
New Baden.....	2	Trackman.....	1	Falling slate.....	16	New Staunton.....	11
Odin.....	4	Trappers.....	4	Fell down.....	2	North Breese.....	2
Pocahontas.....	1			Fell off crossbar.....	1	Odin.....	4
Sandoval.....	2			Flying coal.....	2	Pocahontas.....	1
Staunton.....	12			Flying plug.....	1	Southern.....	2
Troy.....	13			Gas explosion.....	1		
Williamson.....	3			Machine.....	2		
Worden.....	1			Machine truck.....	1		
				Motor.....	2		
				Mule, kicked by.....	6		
				Nail, stepped on.....	1		
				Pick.....	1		
				Pit cars.....	30		
				Powder explosion.....	2		
				Prop and box.....	1		
				Prop and truck.....	1		
				Railroad cars.....	1		
				Shot explosion.....	2		
				Switch.....	2		
				Tail chain.....	1		
Total.....	108		108		108		108

Recapitulation of non-fatal casualties, nature of injuries, conjugal relations and time lost—Eighth District—1912.

Number of injuries.	Number.	Married.	Single.	Children.	Dependents.	Time lost—days.		Percent- age of injuries.
						Total.	Average.	
Ankle broken.....	1	1			1			.93
Ankles injured.....	4	1	3	3	4	171	42.75	3.70
Arms broken.....	4	3	1	2	5	207	51.75	3.70
Arms injured.....	4	1	3	2	3	196	49.00	3.70
Back broken.....	1		1					.93
Backs injured.....	5	1	4	3	1	317	79.20	4.63
Body burned.....	1	1		3	4	90	90.00	.93
Bodies injured.....	14	8	6	29	32	720	60.00	12.97
Collar bone broken.....	5	1	4	3	4	248	49.60	4.63
Eyes destroyed.....	3	3		8	11	120	120.00	2.77
Eye injured.....	1	1		2	3	66	66.00	.93
Feet broken.....	2	1	1		1	69	34.50	1.85
Feet cut off.....	1		1			150	150.00	.93
Feet injured.....	4	1	3	1	2	320	80.00	3.70
Fingers cut off.....	3	3		8	8	142	47.33	2.77
Fingers injured.....	10	4	6	11	15	367	45.87	9.26
Hands injured.....	6	3	3	10	12	276	55.20	5.56
Heads injured.....	4	2	2	5	3	169	84.50	3.70
Legs broken.....	15	8	7	32	39	1,271	127.10	13.89
Leg cut off.....	1		1					.93
Legs injured.....	11	5	6	20	18	416	41.60	10.19
Pelvis bone broken.....	2		2			49	49.00	1.85
Ribs broken.....	3	1	2	10	11	205	68.33	2.77
Shoulders burned.....	1		1			80	80.00	.93
Toes injured.....	2		2			60	30.00	1.85
Total.....	108	49	59	152	177	5,709	65.62	100.00

Bond County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	Pocahontas Mining Co., No. 1.....	Pocahontas.....	12,000	78,677	40,850	131,527
2	Northern Coal & Supply Co.....	Sorento.....	6,480	16,896	28,277	51,653
	Total—2 mines.....		18,480	95,573	69,127	183,180

Mines reported in 1911, 2.

Mines for 1912, 2.

Clinton County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	Southern C. & M. Co., No. 9.....	New Baden.....	50,177	170,016	132,108	352,301
2	Breese-Trenton Mining Co., Breese.....	Breese.....	24,182	83,542	122,336	230,060
3	Breese-Trenton Mining Co., Buxton.....	Beckemeyer.....	74,463	50,777	46,512	171,752
4	North Breese Coal & Mining Co., N. Mine	Breese.....	2,793	98,419	62,514	163,726
5	Consolidated Coal Co., W. Mine.....	do.....	4,681	75,230	15,232	95,143
Total—5 mines.....			156,296	477,984	378,702	1,012,982

Mines reported for 1911, 5.

Mines in 1912, 5.

Eighth District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Ac-cidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.	
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.
123,380	8,147	6,063	153	143	43	186	131,527	.....	.....	1	Solid....	.....	12
47,607	4,046	3,000	166	90	40	130	51,653	.....	1	.....	do.....	.....	15
170,987	12,193	9,063	160	233	83	316	183,180	.....	1	1	.....	.....	27

Eighth District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Ac-cidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.	
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.
326,126	26,175	2,930	200	.....	382	382	.....	352,301	2	2	U. C....	16	1
162,228	67,832	2,648	212	170	73	243	230,060	.....	.....	2	Solid....	12	2
157,658	14,094	5,052	152	185	81	266	171,752	.....	1	3	do.....	19	3
160,021	3,705	5,355	150	105	124	229	110,057	53,669	.....	2	Both....	15	4
86,709	8,434	3,773	113	145	50	195	95,143	.....	.....	4	Solid....	10	5
892,742	120,240	25,758	165	605	710	1,315	607,012	405,970	3	13	.....	72	.....

Madison County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	New Staunton Coal Co., No. 1.....	Livingston.....	179,753	251,106	306,773	737,632
2	Mt. Olive & Staunton C. Co., No. 2.....	Staunton.....	107,390	253,458	145,196	506,044
3	Donk Bros. C. & C. Co., No. 2.....	Maryville.....	45,795	195,800	139,309	380,904
4	Mt. Olive & Staunton C. Co., No. 1.....	Staunton.....	20,728	181,471	109,483	311,682
5	Lumaghi Coal Co., No. 2.....	Collinsville.....		122,535	115,605	238,140
6	Donk Bros. C. & C. Co., No 1.....	do.....	39,268	94,549	92,040	225,857
7	Donk Bros. C. & C. Co., No. 3.....	Troy.....	12,335	113,714	83,027	209,076
8	Madison Coal Corp., No. 2.....	Glen Carbon.....	51,266	107,538	40,400	199,204
9	Madison Coal Corp., No. 4.....	do.....	44,944	96,676	37,093	178,713
10	Kerns-Donnewald C. Co., K-D.....	Worden.....	27,292	48,777	46,515	122,584
11	Lumaghi Coal Co., No. 3.....	Collinsville.....	7,324	35,707	48,640	91,671
12	DeCamp Coal Mining Co., No. 1.....	Staunton.....	2,224	43,888	41,237	87,349
13	City Coal Co., No. 3.....	Edwardsville.....	7,083	21,216	14,143	42,442
14	Edwardsville Home Trade C. Co., H Tr.	do.....	10,350	20,735	6,912	37,997
15	Brookside Coal Co.....	Troy.....		9,094	7,441	16,535
16	W. S. Walker, Henrietta.....	Edwardsville.....	8,750	4,000	2,350	15,100
Total.....			564,502	1,600,264	1,236,164	3,400,930
LOCAL MINES.						
1	Hydraulic Press Brick Co.....	Collinsville.....	17,909			17,909
2	Abbey Coal Corporation.....	do.....	3,539	7,079	1,179	11,797
3	East Side Coal Co.....	Edwardsville.....	2,537	4,549	1,731	8,817
4	Williams & Newman.....	Collinsville.....	2,000	2,200	1,000	5,200
5	Bullock Bros.....	do.....	583	2,098	1,143	3,824
6	George Kabel.....	Moro.....		1,800		1,800
7	Pete Meyer.....	Bethalto.....		1,700		1,700
8	Ernst Rink.....	do.....		800		800
9	Yager Coal Co.....	do.....		787		787
10	Ben Eccles.....	Alton.....	700			700
11	Hardin & Stregemier.....	Worden.....		212	60	272
Total.....			27,268	21,225	5,113	53,606
Total—27 mines.....			591,770	1,621,489	1,241,277	3,454,536

Mines reported for 1911, 27.

New mines, 3.

Abandoned mines, 3.

Mines for 1912, 27.

Eighth District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Accidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	Number.
727,788	9,844	5,409	195	.....	622	622	.....	737,632	5	11	U. C.	32		1
495,518	10,526	2,665	148	.....	560	560	.....	506,044	2	11	do.	30		2
365,677	15,227	3,875	176	225	225	450	.....	380,904	.....	15	do.	30		3
295,473	16,209	1,736	181	.....	343	343	.....	311,682	.....	3	do.	19		4
233,413	4,727	2,226	107	.....	430	430	.....	238,140	2	10	do.	30		5
217,584	8,273	9,698	139	180	120	300	225,857	.....	1	2	Solid.	16		6
198,574	10,502	7,938	187	184	163	347	209,076	.....	1	13	do.	20		7
186,296	12,908	2,280	157	.....	273	273	35,703	.....	.....	4	Both.	10		8
169,022	9,691	3,453	154	.....	265	265	94,928	.....	.....	4	do. ....	.....		9
117,399	5,185	1,168	158	.....	163	163	.....	122,584	.....	1	U. C.	8		10
88,872	2,799	757	104	13	147	160	.....	91,671	1	5	do.	12		11
83,519	3,830	729	101	119	70	189	.....	87,349	3	3	do.	14		12
21,838	20,604	414	212	.....	71	71	3,849	38,593	.....	2	Both.	7		13
17,500	20,497	1,592	243	36	12	48	37,997	.....	1	1	Solid.	31		14
11,574	4,961	800	188	23	19	42	16,535	.....	.....	.....	do.	5		15
13,600	1,500	380	90	.....	38	38	2,000	13,100	.....	.....	Both.	4		16
3,243,647	157,283	45,120	159	780	3,521	4,301	625,945	2,774,985	16	85	.....	268		
.....	17,909	539	225	8	3	11	17,909	.....	.....	.....	.....	.....		1
.....	11,797	500	255	12	3	15	11,797	.....	.....	.....	.....	.....		2
.....	8,817	339	209	9	3	12	8,817	.....	.....	.....	.....	.....		3
.....	5,200	150	200	5	4	9	4,000	1,200	.....	.....	U. C. ....	.....		4
.....	3,824	105	252	7	2	9	3,824	.....	.....	.....	.....	.....		5
.....	1,800	20	200	4	1	5	1,800	.....	.....	.....	.....	.....		6
.....	1,700	25	283	4	1	5	1,700	.....	.....	.....	.....	.....		7
.....	800	2	66	6	1	7	800	.....	.....	.....	.....	.....		8
.....	787	35	150	3	1	4	787	.....	.....	.....	.....	.....		9
.....	700	.....	100	3	1	4	700	.....	.....	.....	.....	.....		10
.....	272	7	40	2	1	3	272	.....	.....	.....	.....	.....		11
.....	53,606	1,722	180	63	21	84	52,406	1,200	.....	.....	.....	.....
3,243,647	210,889	46,842	167	843	3,542	4,385	678,351	2,776,185	16	85	.....	268		

Marion County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	Marion Co. Coal Co.	Centralia.	198,535	68,688	90,425	357,648
2	Centralia Coal Co., No. 2.	do.	8,981	31,519	205,401	245,901
3	Chicago Sandoval Coal Co., No. 2.	Sandoval.	28,669	97,777	67,242	193,688
4	Centralia Coal Co., No. 4.	Centralia.	47,740	43,503	97,122	188,365
5	Odin Coal Co., Odin.	Odin.	75,173	52,970	38,995	167,138
6	Chicago Sandoval Coal Co., No. 1.	Sandoval.	25,446	14,531	11,130	51,207
Total—6 mines.			384,544	308,988	510,415	1,203,947

Mines reported for 1911, 7.
 Credited to Washington county, 1.
 Mines in 1912, 6.

Shipping mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons.						Disposition of out-put—tons.		
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.	Total.	Loaded on cars for shipment.	Other purposes.
Bond.....	2	18,480	95,572	8,785	18,260	42,082	.....	18,180	170,987	12,193
Clinton....	5	156,296	477,984	57,520	51,361	180,660	89,161	1,012,982	892,742	120,240
Madison....	16	564,502	1,600,264	170,845	208,314	706,286	150,719	3,400,930	3,243,647	157,283
Marion....	6	384,544	308,988	165,997	46,663	269,477	28,278	1,203,947	973,423	230,524
Total.	29	1,123,822	2,482,809	403,147	324,598	1,198,505	268,158	5,801,039	5,280,799	520,240

Eighth District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Accidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
349,568	8,080	3,758	242	176	154	330	.....	357,648	.....	.....	U. C. ....	.....	18	1
108,874	137,027	8,203	194	210	90	300	245,901	.....	.....	1	Solid. ....	.....	22	2
186,575	7,113	7,709	229	175	63	238	193,688	.....	.....	2	do. ....	.....	32	3
125,884	62,481	7,385	201	140	76	216	188,365	.....	.....	.....	do. ....	.....	20	4
154,572	12,566	1,529	213	.....	215	215	8,696	158,442	.....	4	Both. ....	.....	24	5
47,950	3,257	2,208	153	70	30	100	51,207	.....	.....	.....	Solid. ....	.....	9	6
973,423	230,524	30,792	205	771	628	1,399	687,857	516,090	.....	9	.....	.....	125	

counties—Eighth District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees.					Tons mined.		Blasting coal.		
		Underground.		Boys.	All above ground.	Total.	By hand.	By machine.	From solid—tons.	Undercut—tons.	Both methods—tons.
		Miners.	Others.								
9,063	160	233	50	7	26	316	183,180	.....	183,180	.....	.....
25,758	165	605	567	17	126	1,315	607,012	405,970	496,955	352,301	163,726
45,120	159	780	3,057	84	380	4,301	625,945	2,774,985	489,465	2,476,006	435,459
30,792	205	771	467	34	127	1,399	687,857	516,090	679,161	357,648	167,138
110,733	170	2,389	4,141	142	659	7,331	2,103,994	3,697,045	1,848,761	3,185,955	766,323

Local mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons.						Total.	Disposition of out-put—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
Madison...	11	27,268	21,225	.....	.....	.....	5,113	53,606	.....	53,606
Total..	11	27,268	21,225	.....	.....	.....	5,113	53,606	.....	53,606
The Dist..	40	1,151,090	2,504,034	403,147	324,598	1,198,505	273,271	5,854,645	5,280,799	573,846

Whole number of mines reported for 1911, 41.

Number of new mines opened during the year, 3.

Number of mines abandoned during the year, 4.

Whole number of mines reported for 1910, 40.

All mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons.						Total.	Disposition of out-put—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
Bond.....	2	18,480	95,573	8,785	18,260	42,082	.....	183,180	170,987	12,193
Clinton....	5	156,296	477,984	57,520	51,361	180,660	89,161	1,012,982	892,742	120,240
Madison...	27	594,770	1,621,489	170,845	208,314	706,286	155,832	3,454,536	3,243,647	210,889
Marion....	6	384,544	308,988	165,997	46,663	269,477	28,278	1,203,947	973,423	230,524
Total..	40	1,151,090	2,504,034	403,147	324,598	1,198,505	273,271	5,854,645	5,280,799	573,846

counties—Eighth District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees.					Tons mined.		Blasting coal.		
		Underground.			All above ground.	Total.	By hand.	By machine.	From solid—tons.	Undercut—tons.	Both methods—tons.
		Miners.	Others.	Boys.							
1,722	180	63	.....	.....	21	84	52,406	1,200	.....	.....	.....
1,722	180	63	.....	.....	21	84	52,406	1,200	.....	.....	.....
112,455	172	2,452	4,141	142	680	7,415	2,156,400	3,698,245	.....	.....	.....

counties—Eighth District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees.					Tons mined.		Blasting coal.		
		Underground.			All above ground.	Total.	By hand.	By machine.	From solid—tons.	Undercut—tons.	Both methods—tons.
		Miners.	Others.	Boys.							
9,063	160	233	50	7	26	316	183,180	.....	.....	.....	.....
25,758	165	605	567	17	126	1,315	607,012	405,970	.....	.....	.....
46,842	167	843	3,057	84	401	4,385	678,251	2,776,185	.....	.....	.....
30,792	205	771	467	34	127	1,399	687,857	516,090	.....	.....	.....
112,455	172	2,452	4,141	142	680	7,415	2,156,400	3,698,245	.....	.....	.....

NINTH INSPECTION DISTRICT—1912.

ANNUAL REPORT.

County—St. Clair.

WALTON RUTLEDGE, *Inspector*, Alton.

Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield:

SIR—Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing county of St. Clair.

SUMMARY OF THE ITEMS SHOWN IN THE REPORT.

Number of counties producing coal.....	1
Number of shipping mines.....	58
Number of local mines.....	17
Number of new or reopened mines.....	4
Number of closed or abandoned mines.....	1
Number of miners.....	2,605
Others underground, men.....	2,637
Boys underground.....	87
Boys above ground.....	6
Others above ground.....	521
Total number of employees.....	5,856
Total tons of coal produced.....	4,516,548
Days of active operation, all mines.....	132
Kegs of powder used for blasting coal.....	100,943
Tons of coal shipped.....	3,966,571
Tons supplied to locomotives.....	132,368
Tons sold to local trade.....	203,331
Tons consumed and wasted at the mines.....	214,278
Number of fatal accidents.....	13
Number of non-fatal accidents.....	53
Number of employees to each fatal accident.....	450
Number of employees to each non-fatal accident.....	110
Tons of coal produced to each fatal accident.....	347,427
Tons of coal produced to each non-fatal accident.....	85,218
Ratio of fatal accidents per 1,000 employees.....	2.22

The coal production for the district is shown for the years 1911 and 1912 in the following table:

Counties.	Total output—tons.		Increase.	Decrease.
	1911.	1912.		
St. Clair.....	5,274,006	4,516,547	.....	757,458

The district shows a decrease of 757,458 tons for the year 1912. This decrease is due to the suspension of the mines from April 1, 1912, to June 1, 1912, the average working days for the shipping mines being only 130 days

NEW MINES.

Three new mines have been put in operation during the year, viz:

The New National Coal and Mining Company, located on a branch of the Illinois Central Railroad, two miles south of Belleville.

The Eldnar Coal and Mining Company, located on the Louisville and Nashville R. R., O'Fallon Branch, three miles north of Belleville.

The Golden Rule Coal Co., located on the Illinois Central R. R., one mile northwest of Lenzburg.

PROSPECTIVE MINE.

A new mine is being sunk at Edgemont by Thomas R. Mould. It will be a local mine.

ABANDONED MINE REOPENED.

The shipping mine known as the Harmony mine, located on the Southern and E. St. Louis and Electric Railroads, which was abandoned on account of fire in the mine, has been reopened and will be known as the Maul Coal and Mining Company's mine.

ABANDONED MINE.

The Borders Coal Co., of Marissa, has abandoned its No. 2 mine.

CHANGE OF NAME.

The Advance and Oak Ridge mines at Marissa, which were reported last year as the Bessemer Washed Coal Co., will be known as the Egyptian Coal and Mining Company. The Tirre mine at Lenzburg, which was reported last year as the Bessemer Washed Coal Co., will be known as the Tirre Coal Company.

The mine known as the Wm. Lattman mine, near Belleville, will be known from this time as the Belleville Colliery Company.

The local mine at Marissa, known as the O. W. Schumacher and Son, will be known from this time as McGough Bros. and Stone.

Henry Hoffman mine at Freeburg, is now operated by Charles Anna.

FIRE AT MINE.

July 1, 1911, the engine and boiler house and tipple of the Wilharmel Coal and Mining Company's mine, at Swansea, were burned down. They have been rebuilt and made fireproof, and mining was resumed November, 1911.

IMPROVEMENTS.

The Superior Coal Company has installed first motion engines, 18 inches by 36 inches, with cone drum, manufactured by Crawford and McCrimmon of Brazil, Indiana; improved the tipple, and put in gasoline motor and new dump cages.

The John Groome Coal Company has made the top of the air shaft and fan casing fireproof, also installed fire-protection for outside buildings.

The Missouri and Illinois Coal Company has made the top of air shaft, and fan casing, fireproof, and installed pump, pipes and hose for protecting outside buildings at Wilderman mine, and retimbered the air shaft at the St. Clair mine.

The Mulberry Hill Coal Company has installed a 100 K. W. generator, and chain breast coal cutting machine, also made the fan casing fireproof.

The Avery Coal Company, at the Randle mine, has removed the fan back from the top of the air shaft and made both fan and top of air shaft fireproof; also installed fire protection for outside buildings.

The Sunlight Coal Company has retimbered a portion of both main and air shafts.

The Kolb Coal Company has installed at the Vinegar Hill mine a 6½-ton Whitcomb gasoline motor, also retimbered a portion of the air shaft. The air shaft at the Valley mine has been retimbered.

A new hoisting shaft has been sunk at Mascoutah mine, which will be used as an air shaft; an auxiliary fan has been installed between the two shafts for the ventilation of the new shaft.

The Johnson Coal Company of Marissa has retimbered the air shaft.

The St. Louis and O'Fallon Coal Company at its No. 1 mine has cleaned out the air courses and reinforced the stoppings between intake and return and put in four overcasts and regulators for splitting the air, which has increased the ventilation largely.

The Prairie Coal Company has sunk an artesian well for water supply, retimbered both shafts and put in a new boiler.

The Joseph Taylor Coal Company, St. Ellan and Ridge Prairie mines has reduced the voltage from 500 to 275 volts, to conform to the law of the State. The mine car couplings have been rearranged and a gasoline motor installed at the Taylor mine.

The Cluley-Miller Coal Company has retimbered a portion of the air shaft, and put up a new tippie and shaking screen.

The Consolidated Coal Company at No. 17 mine, Collinsville, has reduced the voltage from 500 to 275 volts, rearranged the mine car couplings, and put up guards on trolley wires.

The L. Senior Coal Company has sunk a slope near the working faces, which will be used as an escape way and air way.

The Star Coal Company has installed an air compressor and coal cutting machines.

The Gouch Coal Company, of Rentchler, has built a new tippie and shaking screens and put in new cages.

At the local mine of J. H. Beatty, Mascoutah, a new hoisting engine has been installed.

The Bretz and Schilling Coal Company has installed a new boiler and fireproofed the old boiler house at its White Rose mine.

The Coöperative Coal Company, New Athens, has built a new tippie and housing at its mine.

FATAL ACCIDENTS.

August 19, 1911, Emil Poirot, miner, aged 30 years, married, was killed by falling slate, in the Southern Coal Mining Co.'s No. 8 mine, Shiloh. He leaves a widow and one child.

November 14, 1911, Edward Shinnars, machine runner, aged 27 years, married, employed in the Royal Coal and Mining Company's mine, Belleville, was killed by falling slate. He leaves a widow and two children.

November 27, 1911, Reuben Mitchell, cager, aged 40 years, married, was killed by pit cars in the mine of the Sunlight Coal Company, Freeburg. He leaves a widow and three children.

January 23, 1912, Louis Vogt, miner, aged 38 years, married, was killed by falling clod in the Joseph Taylor Coal Company's, St. Ellans mine, O'Fallon. He leaves a widow and one child.

February 2, 1912, Charles T. Glasener, driver, aged 22 years, single, employed in the St. Louis and O'Fallon Coal Co.'s No. 2 mine, O'Fallon, was killed by pit cars.

February 23, 1912, Evan J. Edwards, miner, aged 50 years, single, was killed by falling coal in the St. Louis and O'Fallon Coal Co.'s No. 2 mine, O'Fallon. He leaves three children.

March 1, 1912, Joseph Koerlas, machine runner, aged 30 years, married, was killed by falling coal in the Consolidated Coal Co.'s No. 17 mine, Collinsville. He leaves a widow and five children.

March 6, 1912, Emil Miller, miner, aged 30 years, married, employed in the St. Louis and O'Fallon Coal Co.'s No. 1 mine, O'Fallon, was killed by a fall of slate. He leaves a widow and one child.

March 28, 1912, Virgil Dugan, laborer, aged 29 years, married, fell down the shaft at the International Coal and Mining Co.'s mine, Lebanon, and was instantly killed. He leaves a widow and three children.

Richard D. Leslie, laborer, aged 50 years, single, was killed at the same time and place and in the same way as Virgil Dugan.

May 7, 1912, Joseph Poliski, miner, aged 56 years, married, was killed by falling slate in the Pittsburg Coal Mining Co.'s mine, Belleville. He leaves a widow and six children.

June 15, 1912, Otto Barthelme, miner, aged 34 years, married, was killed in the Fairbanks mine of the Kolb Coal Company, Lenzburg, by falling slate. He leaves a widow and three children.

June 21, 1912, Joseph Bianjo, miner, aged 38 years, married, was killed by falling slate in the St. Louis and O'Fallon Coal Co.'s No. 2 mine, O'Fallon. He leaves a widow and three children.

Respectfully submitted,

WALTON RUTLEDGE,

State Inspector of Mines, Ninth District, Alton, Ill.

Fatal casualties—Ninth District—June 30, 1912.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Single.	Widow.	Children.	Dependents.	Cause of death.
1911.										
Aug. 19	Emil Poirot.....	30	Miner.....	Belleville.....	1	..	1	1	2	Falling slate.....
Nov. 14	Eward Shinnons.....	27	Machine runner	..do.....	1	..	1	2	3	..do.....
27	Reuben Mitchell.....	40	Cager.....	Freeburg.....	1	..	1	3	4	Pit car.....
1912.										
Jan. 23	Louis Vogt.....	38	Miner.....	E. St. Louis.....	1	..	1	1	2	Falling clod.....
Feb. 2	Chas. T. Glasener.....	22	Driver.....	Tilden.....			1	..	..	Pit cars.....
23	Evan J. Edwards.....	50	Miner.....	Belleville.....			1	..	3	Falling coal.....
Mar. 1	Joseph Koerlas.....	30	Machine helper.	Collinsville.....	1	..	1	5	6	..do.....
6	Emil Miller.....	30	Miner.....	French Village.....	1	..	1	1	2	Falling slate.....
28	Virgil Dugan.....	29	Laborer.....	Lebanon.....	1	..	1	3	4	Fell down shaft.....
28	Richard D. Leslie.....	50	..do.....	..do.....			1	..	..	..do.....
May 7	Koseph Poliski.....	56	Miner.....	Belleville.....	1	..	1	6	5	Falling slate.....
June 15	Otto Barthelme.....	34	..do.....	Lenzburg.....	1	..	1	3	4	..do.....
21	Joseph Bianjo.....	38	..do.....	Belleville.....	1	..	1	3	4	..do.....
	Total.....	..	.....	.....	10	3	10	31	38	

Recapitulation of fatal casualties—Ninth District—1912.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Belleville.....	5	Cager.....	1	Falling clod.....	1	Consolidated.....	1
Collinsville.....	1	Driver.....	1	Falling coal.....	2	International.....	2
E. St. Louis.....	1	Laborer.....	2	Falling slate.....	6	Kolb.....	1
Freeburg.....	1	Machine helper.	1	Fell down shaft.....	2	Pittsburg.....	1
French Village.....	1	Machine runner	1	Pit cars.....	2	Royal.....	1
Lebanon.....	2	Miner.....	7			St. L. & O'Fallon.....	4
Lenzburg.....	1					Southern.....	1
Tilden.....	1					Sunlight.....	1
						Taylor, Joseph.....	1
Total.....	13		13		13		13

Non-fatal casualties—Ninth District—June 30, 1912.

Date.	Name.	Residence.	Age.	Married.	Single.	Children.	Dependents.	Character of injury and cause of accident.	Time lost—days.
1911.									
July 13	Harry Britten.....	22 Collinsville.....	1	1				Body burned, steam.....	30
15	Sam. Hiles.....	45 O'Fallon.....	1	1		2		Body injured, pit car.....	35
Aug. 5	Mike Goodlisky.....	34 Collinsville.....	1	1		3		Ankle injured, falling coal.....	59
8	Andy Gorry.....	52 Trenton.....	1	1				Body injured, falling cross bar.....	32
11	Frank Winkler.....	40 Freeburg.....	1	1	3	4		Leg broken, pit car.....	90
15	Nick Doyle.....	32 Collinsville.....	1	1	1	2		Body injured, flying steel.....	30
21	John Kaiser.....	38 ..do.....	1	1				Hand injured, pit car.....	30
26	John Andrews.....	42 ..do.....	1	1	5	6		Back injured, falling slate.....	43
29	Chas. Hartman.....	68 ..do.....	1	1	8	9		Body injured, falling slate.....	30
Sept. 7	Wesley Fowler.....	48 ..do.....	1	1	5	6		Body injured, falling clod.....	30
11	Frank Salvina.....	38 ..do.....	1	1	3	4		Leg injured, truck.....	75
20	Sylvester Kemp.....	53 Belleville.....	1	1	3	4		Back broken, falling clod.....	*
23	James Larusse.....	34 Collinsville.....	1	1				Foot injured, falling slate.....	54
Oct. 9	Wm. Rehy.....	20 Belleville.....	1	1		1		Body injured, pit car.....	60
9	Cass Mattea.....	32 Collinsville.....	1	1				Hand injured, machine.....	55
11	John Jove.....	22 Belleville.....	1	1				Foot injured, pit car.....	30
14	Richard Griffith.....	30 O'Fallon.....	1	1	1	2		Body injured, pit car.....	35
15	Theo. Walkkemer.....	48 Trenton.....	1	1				Back injured falling clod.....	45
18	Andrew Keissell.....	22 Freeburg.....	1	1	3	4		Leg broken, pit car.....	90
25	Ed. Smith.....	48 Collinsville.....	1	1	2	3		Body burned, electric current.....	*
Nov. 6	Phil E. Deitrich.....	30 Freeburg.....	1	1	1	2		Body injured, pit car.....	90
13	Jas. Grivette.....	31 Collinsville.....	1	1	2	3		Body injured, falling clod.....	43
15	M. J. Smith.....	48 Trenton.....	1	1	1	2		Rib broken, falling clod.....	45
16	Frank Welz.....	52 ..do.....	1	1				Collar bone broken, falling clod.....	40
Dec. 4	Ben Zapf.....	39 Collinsville.....	1	1	4	5		Body injured, pit car.....	30
11	Tony Zellis.....	23 ..do.....	1	1				Leg injured, pit car.....	30
14	Frank Polconous.....	35 ..do.....	1	1	4			Back injured, falling slate.....	31
1912.									
Jan. 4	Chas. McCan.....	30 O'Fallon.....	1	1	2	3		Body injured, pit car.....	60
11	Ike Edwards.....	19 Caseyville.....	1	1				Leg injured, motor.....	60
12	John Jackson.....	20 O'Fallon.....	1	1				Leg injured, pit car.....	42
15	Chas. Peterson.....	28 Belleville.....	1	1	2	3		Body injured, pit car.....	30
19	Tom Solmanous.....	30 ..do.....	1	1				Back injured, squeezed by mule.....	35
20	L. Beasley.....	27 ..do.....	1	1	4			do.....	32
21	Jos. Frey.....	36 Collinsville.....	1	1	5	6		Foot injured, fan.....	79
24	Geo. Kuhn.....	35 O'Fallon.....	1	1				Arm broken, falling clod.....	50
26	A. Bartkus.....	29 Collinsville.....	1	1				Hand injured, falling coal.....	38
31	Otto Oblinger.....	28 Trenton.....	1	1				Leg injured, pit car.....	45
Feb. 10	Frank Woodscheck.....	27 E. St. Louis.....	1	1	2	3		Rib broken, squeezed by mule.....	40
13	Arthur Ward.....	24 Belleville.....	1	1	1	2		Body injured, falling clod.....	90
14	A. D. Peters.....	30 French Village.....	1	1	4	5		Hand injured, pit car.....	90
17	Robert Parrot.....	31 E. St. Louis.....	1	1	1	2		Leg broken, pit car.....	90
18	Evert Browing.....	19 Freeburg.....	1	1		1		Leg broken, falling clod.....	60
Mar. 4	Virgle Strebe.....	24 Caseyville.....	1	1				Wrist broken, pit car.....	47
6	Oscar Miller.....	20 French Village.....	1	1				Ribs broken, falling slate.....	35
8	John Taylor.....	34 E. St. Louis.....	1	1	2	3		Foot injured, falling slate.....	60
9	Robert Ferguson.....	50 O'Fallon.....	1	1				Body burned, electric current.....	32
20	George Russell.....	43 Collinsville.....	1	1	1	2		Foot injured, pit car.....	37
21	Frank Futtheck.....	19 ..do.....	1	1				Fingers injured, pit car.....	35
22	Roy Cooper.....	20 O'Fallon.....	1	1				Leg broken, tail chain.....	90
29	Henry Grafe.....	23 Collinsville.....	1	1	2	3		Foot injured, falling clod.....	37
May 21	Joe. Ecker.....	62 ..do.....	1	1	6	7		Hand injured, axe.....	30
28	Theo. Yeger.....	28 Belleville.....	1	1				Foot injured, pit car.....	*
June 13	John Kaiser.....	38 Collinsville.....	1	1				Hand injured, falling coal.....	*
	Total.....			31	22	82	113		

* Not returned to work.

Total number injured..... 53

Number not returned to work July 1, 1912..... 4

Number returned to work..... 49

Number of days lost by men returned to work..... 2,346

Average days lost..... 47.88

Recapitulation of non-fatal casualties—Ninth District—1912.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Belleville.....	8	Black smith....	1	Axe.....	1	Breese-Trenton.....	5
Caseyville.....	4	Cagers.....	3	Electric current.....	2	Consolidated.....	22
Collinsville.....	20	Drivers.....	18	Falling clod.....	11	Mulberry Hill.....	2
East St. Louis...	3	Laborer.....	1	Falling coal.....	3	St. Louis & O'Fallon.....	9
Freeburg.....	4	Loaders.....	9	Falling cross bar.....	1	Southern.....	6
French Village...	2	Machine helpers	3	Falling slate.....	6	Star.....	2
O'Fallon.....	7	Machine runner	3	Fan.....	1	Taylor, Joseph.....	7
Trenton.....	5	Miners.....	12	Flying steel.....	1		
		Timbermen.....	2	Machine.....	1		
		Trip rider.....	1	Mule.....	3		
				Pit cars.....	20		
				Steam.....	1		
				Tail chain.....	1		
				Truck.....	1		
Total.....	53		53		53		53

Recapitulation of non-fatal casualties, nature of injuries, conjugal relations and time lost—Ninth District—1912.

Nature of injuries.	Number.	Married.	Single.	Children.	Dependents.	Time lost—days.		Percent- age of injuries.
						Total.	Average.	
Ankle injured.....	1	1	.....	3	4	59	59.00	1.89
Arm broken.....	1	.....	1	.....	4	50	50.00	1.89
Back broken.....	1	.....	.....	3	.....	.....	.....	1.89
Backs injured.....	5	3	2	13	16	186	37.20	9.43
Bodies burned.....	3	1	2	2	3	62	31.00	5.66
Bodies injured.....	13	12	1	28	40	595	45.77	24.53
Collar bone broken.....	1	.....	1	.....	.....	40	40.00	1.89
Feet injured.....	7	4	3	10	14	297	49.50	13.20
Fingers injured.....	1	.....	1	.....	.....	35	35.00	1.89
Hand injured.....	6	2	4	10	12	183	36.60	11.32
Legs broken.....	5	4	1	7	11	420	84.00	9.43
Legs injured.....	5	1	4	3	4	252	50.40	9.43
Ribs broken.....	3	2	1	3	5	120	40.00	5.66
Wrist broken.....	1	.....	1	.....	.....	47	47.00	1.89
Total.....	53	31	22	82	113	2,346	47.88	100.00

St. Clair County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	St. Louis & O'Fallon Coal Co., No. 2.....	E. St. Louis.....	9,960	361,716	193,032	564,708
2	Consolidated Coal Co., No. 17.....	Collinsville.....	8,911	351,734	156,268	516,913
3	Southern Coal & Mining Co., No. 8.....	Belleville.....	83,983	164,851	83,153	331,987
4	Prairie Coal Co., Prairie.....	..do.....	1,242	207,798	116,640	325,680
5	Southern Coal & Mining Co., No. 7.....	..do.....	52,712	115,451	65,758	233,921
6	Joseph Taylor Coal Co., St. Ellen.....	O'Fallon.....	100,593	80,000	180,593	
7	Superior Coal & Mining Co., Superior.....	Belleville.....	3,709	104,508	50,405	158,622
8	Suburban Coal & Mining Co., S. M.....	..do.....	102,199	49,404	151,603	
9	Royal Coal & Mining Co., Royal.....	..do.....	23,497	55,056	53,147	131,700
10	St. Louis & O'Fallon Coal Co., No. 1.....	E. St. Louis.....	6,431	79,448	42,827	128,706
11	Kolb Coal Co., Mascoutah.....	Mascoutah.....	83,410	23,035	11,345	117,790
12	Breese Trenton Mining Co., T. Mine.....	Trenton.....	3,494	59,133	42,838	105,465
13	Joseph Taylor Coal Co., Taylor.....	O'Fallon.....	63,046	35,000	98,046	
14	Fullerton Coal Co., Burdette.....	Belleville.....	31,483	39,800	15,000	86,283
15	Joseph Taylor Coal Co., Ridge Prairie.....	O'Fallon.....	50,452	31,500	81,952	
16	Kolb Coal Co., Fairbank.....	New Athens.....	16,402	63,700	80,102	
17	Borders Coal Co., B. C. Co.....	Marissa.....	2,300	39,165	22,753	64,218
18	Pittsburg Mining Co.....	Belleville.....	56,450			56,450
19	Johnson Coal Co., O. K.....	Marissa.....		35,353	20,514	56,167
20	Star Coal Co., Star Mine.....	Freeburg.....	12,000	21,000	22,461	55,461
21	Mo. & Ill. Coal Co., Rentchler.....	Rentchler.....		35,051	16,552	51,603
22	Jones Bros. C. & M. Co., No. 1.....	Marissa.....	6,299	31,423	12,927	50,649
23	International Coal & Mining Co., Carbon.....	O'Fallon.....	7,751	19,128	13,901	40,780
24	Summit C. & M. Co., Summit.....	Belleville.....	4,600	23,231	12,701	40,532
25	Mulberry Hill Coal Co., M. H.....	Freeburg.....		26,960	13,480	40,440
26	Dewey C. & M. Co., Gartside.....	Belleville.....		32,200	8,000	40,200
27	Wilhamit C. & C. Co., Miller Mine.....	..do.....	5,102	21,192	10,596	36,890
28	Egyptian C. & M. Co., Oak Ridge.....	Marissa.....	15,599	9,994	10,814	36,407
29	Southern C. & M. Co., No. 1.....	Belleville.....	592	21,924	13,154	35,670
30	Glendale C. & M. Co., Glendale.....	..do.....	9,556	13,660	6,444	29,660
31	Groom Coal Co., Richland.....	..do.....	31	22,842	6,532	29,405
32	Mo. & Ill. Coal Co., Wilderman.....	Wilderman.....	595	15,114	11,019	26,728
33	L. Senior Coal Co., Branch.....	Belleville.....	11,000	9,940	4,970	25,910
34	Cluly Miller Coal Co., Ruby.....	Caseyville.....	12,084	10,300	3,200	25,584
35	Kolb Coal Co., Valley.....	Birkner.....	25,275			25,275
36	International C. & M. Co., Bennett.....	O'Fallon.....	852	19,492	14,669	35,013
37	Gauch C. & M. Co., Enterprise.....	Rentchler.....	4,059	13,299	6,382	23,740
38	Southern C. & M. Co., No. 3.....	Belleville.....	9,161	8,239	5,436	22,836
39	Tirre C. & M. Co., Tirre.....	Lenzburg.....	12,240	6,798	3,376	22,414
40	Highland Coal Co., Highland.....	Belleville.....		15,864	6,174	22,038
41	F. Sargent & Sons, C. Mine.....	..do.....		15,288	6,141	21,429
42	Maul C. & M. Co., Harmony.....	..do.....	1,282	11,244	6,841	19,367
43	Southern C. & M. Co., No. 6.....	..do.....	8,846	5,987	4,171	19,004
44	Vulcan C. & M. Co., Hippard Mine.....	..do.....	1,432	9,371	7,456	18,259
45	T. M. Meek Coal Co., Meek.....	Marissa.....	13,794	2,650	1,431	17,875
46	White & Sons, Branch No. 2.....	Belleville.....	16,983			16,983
47	Reeb Coal Co., Murphy.....	..do.....	13,220		1,104	14,324
48	Southern C. & M. Co., No. 4.....	..do.....	1,150	7,734	4,855	13,739
49	Kolb Coal Co., V. Hill.....	New Athens.....	10,209		3,290	13,499
50	Avery Coal Co., Randle.....	Freeburg.....	4,008	5,487	3,370	12,865
51	Sunlight Coal Co., Freeburg.....	..do.....	4,274	2,988	3,624	10,886
52	New National C. & M. Co., N. Mine.....	Belleville.....	8,992			8,992
53	Southern C. & M. Co., No. 5.....	..do.....	8,232	275	241	8,748
54	Mo. & Ill. Coal Co., St. Clair Mine.....	Freeburg.....	403	5,973	1,757	8,133
55	Silver Creek Coal Co., Beatty.....	Mascoutah.....		5,748	2,076	7,824
56	Egyptian C. & M. Co., Advance.....	Marissa.....	3,899	168	57	4,124
57	Golden Rule Coal Co., G. Rule.....	Lenzburg.....	226	1,900	916	3,042
58	Eldnar Coal Co., Eldnar Mine.....	Belleville.....	880	792	475	2,187
Total.....			602,208	2,422,996	1,384,177	4,409,381

Ninth District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Ac-cidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number.	
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.		
556,433	8,275	6,486	229	30	550	580	49,730	514,978	3	6	Both.	...	30	1	
449,805	67,108	3,818	201	...	372	372	...	516,913	1	21	U. C.	...	28	2	
321,866	10,121	3,362	215	...	283	285	...	331,987	1	5	do.	...	20	3	
323,054	2,626	13,027	232	215	56	271	325,680	...	...	...	Solid.	...	17	4
223,377	10,544	2,544	233	...	202	202	...	233,921	...	1	U. C.	...	17	5	
160,293	23,000	5,619	136	185	53	238	180,593	...	1	3	Solid.	...	10	6	
155,944	2,678	1,199	206	62	69	131	...	158,622	...	...	U. C.	...	14	7
143,796	7,807	5,800	229	90	28	118	151,603	...	...	...	Solid.	...	12	8
130,279	1,421	2,185	160	...	129	129	5,933	125,767	1	...	Both.	...	14	9	
124,048	4,658	5,061	102	280	122	402	128,706	...	1	4	Solid.	...	23	10	
20,120	97,670	3,900	337	80	22	102	117,790	...	...	...	do.	...	6	11
85,425	20,040	646	136	...	180	180	...	105,465	...	5	U. C.	...	15	12	
86,346	11,700	3,217	144	108	38	146	98,046	...	...	2	Solid.	...	8	13
85,083	1,200	2,719	151	74	17	91	86,283	...	...	...	do.	...	7	14
70,652	11,300	2,713	125	90	39	129	81,952	...	...	2	U. C.	...	8	15
37,852	42,250	2,690	235	45	19	64	80,102	...	1	...	Solid.	...	9	16	
57,841	6,377	2,098	109	80	22	102	64,218	...	...	...	do.	...	6	17
44,370	12,080	1,713	223	42	13	55	56,450	...	1	...	do.	...	4	18	
54,140	2,027	1,909	130	60	16	76	56,167	...	...	...	do.	...	4	19
50,000	5,461	1,600	337	...	75	75	47,461	...	...	2	do.	...	3	20
49,628	1,975	768	151	...	74	74	...	51,603	...	...	U. C.	...	5	21
45,029	5,620	1,661	103	60	12	72	50,649	...	...	...	Solid.	...	4	22
36,990	3,790	1,415	87	75	32	107	40,780	...	...	...	do.	...	7	23
39,688	844	1,575	95	60	22	82	40,532	...	...	...	do.	...	8	24
38,400	2,040	600	60	...	86	86	...	40,440	...	2	U. C.	...	8	25	
39,700	500	490	180	38	10	48	...	40,200	...	...	do.	...	4	26
29,163	7,727	1,196	86	52	18	70	36,890	...	...	...	Solid.	...	8	27
34,250	2,157	1,255	52	80	40	120	36,407	...	...	...	do.	...	8	28
33,289	2,381	316	88	...	111	111	...	35,670	...	...	U. C.	...	8	29
23,083	6,577	950	139	35	20	55	29,660	...	...	...	Solid.	...	3	30
28,910	495	850	175	25	10	35	29,405	...	...	...	do.	...	4	31
25,505	2,223	967	152	...	67	67	22,994	3,734	...	...	Both.	...	8	32
23,760	2,150	459	126	23	9	32	3,209	22,701	...	...	do.	...	4	33
25,000	584	850	115	30	7	37	25,584	...	...	...	Solid.	...	3	34
21,910	3,365	845	147	32	12	44	25,275	...	...	...	do.	...	4	35
29,532	5,481	875	162	...	73	73	26,965	8,048	2	...	Both.	...	7	36	
22,536	1,204	588	108	34	17	51	23,740	...	...	...	Solid.	...	4	37
20,916	1,920	781	87	37	19	56	22,836	...	...	...	do.	...	5	38
21,349	1,065	684	68	33	15	48	22,414	...	...	...	do.	...	4	39
8,036	14,002	685	220	20	4	24	22,038	...	...	...	do.	...	3	40
20,603	826	1,031	125	28	6	34	21,429	...	...	...	do.	...	2	41
18,299	1,068	652	123	26	11	37	19,367	...	...	...	do.	...	5	42
18,175	829	618	41	80	27	107	19,004	...	...	...	do.	...	7	43
17,014	1,245	695	69	45	21	66	18,259	...	...	...	do.	...	5	44
17,296	579	642	51	42	18	60	17,875	...	...	...	do.	...	4	45
10,483	6,500	556	107	22	6	28	16,983	...	...	...	do.	...	3	46
7,802	6,522	520	213	10	2	12	14,324	...	...	...	do.	...	1	47
12,886	853	114	54	...	59	59	...	13,739	...	...	U. C.	...	5	48
10,209	3,209	449	77	30	10	40	13,499	...	...	...	Solid.	...	4	49
11,179	1,686	454	70	30	12	42	12,865	...	...	...	do.	...	6	50
10,049	837	409	61	26	8	34	10,886	...	1	...	do.	...	4	51	
8,492	500	300	107	10	4	14	8,992	...	...	...	do.	...	1	52
4,631	4,117	290	88	12	5	17	8,748	...	...	...	do.	...	1	53
7,809	324	241	71	18	7	25	8,133	...	...	...	do.	...	5	54
7,664	160	250	76	...	30	30	...	7,824	...	...	U. C.	...	2	55
2,983	1,141	150	26	20	10	30	4,124	...	...	...	Solid.	...	3	56
1,547	1,495	121	119	12	5	17	3,042	...	...	...	do.	...	1	57
2,052	135	86	105	4	7	11	2,147	...	...	...	do.	...	1	58
3,966,571	442,810	97,694	130	2,490	3,211	5,701	2,189,769	2,219,612	13	53	424	

St. Clair County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
LOCAL MINES.						
1	Bretz & Schilling.....	Belleville.....	17,900			17,900
2	Belleville Colliery Co.....	do.....	17,780			17,780
3	Tower Grove Coal Co.....	do.....	13,473			13,473
4	R. Schramm & Son.....	do.....	5,549	2,974	400	8,923
5	Peoples Coal Co.....	Lebanon.....	8,250			8,250
6	Cooperative Coal Co.....	New Athens.....	7,616			7,616
7	Diamond Joe Coal Co.....	Millstadt.....	7,136			7,136
8	Leppert Bros.....	do.....	6,420			6,420
9	John T. Beaty.....	Mascoutah.....	5,777			5,777
10	McGouch Bros. & Stone.....	Marissa.....	4,210			4,210
11	Quinn & Son.....	Smithton.....	2,800			2,800
12	Emil Kramer.....	Caseyville.....	1,700			1,700
13	Fred J. Zeska.....	Belleville.....	1,600			1,600
14	Wm. Ahrens.....	Millstadt.....	1,500			1,500
15	Chas. Arona.....	Freeburg.....	1,200			1,200
16	Edgemont Coal Co.....	Edgemont.....	622			622
17	St. Libori Coal Co.....	St. Libori.....	300			300
Total.....			103,833	2,974	400	107,207
Total—75 mines.....			706,041	2,425,970	9,312	4,516,588

Mines reported for 1911, 72.

New mines, 4.

Abandoned mines, 1.

Mines in 1912, 75.

Shipping mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons.						Total.	Disposition of out-put—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
St. Clair.....	58	602,208	2,422,996	89,912	142,777	870,292	281,156	4,409,341	3,966,571	442,770

Ninth District—Concluded.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Accidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
.....	17,900	747	225	10	4	14	17,900	.....	.....	.....	.....	.....	.....	1
.....	17,780	900	198	25	10	35	17,780	.....	.....	.....	.....	.....	.....	2
.....	13,473	402	200	16	2	18	13,473	.....	.....	.....	.....	.....	.....	3
.....	8,923	120	207	8	2	10	8,923	.....	.....	.....	.....	.....	.....	4
.....	7,250	58	210	8	5	13	.....	8,250	.....	.....	.....	.....	.....	5
.....	7,616	244	245	6	2	8	7,616	.....	.....	.....	.....	.....	.....	6
.....	7,136	.....	160	6	2	8	7,136	.....	.....	.....	.....	.....	.....	7
.....	6,420	21	210	8	1	9	6,420	.....	.....	.....	.....	.....	.....	8
.....	5,777	305	216	5	3	8	5,777	.....	.....	.....	.....	.....	.....	9
.....	4,210	160	240	8	1	9	4,210	.....	.....	.....	.....	.....	.....	10
.....	2,800	75	300	3	1	4	2,800	.....	.....	.....	.....	.....	.....	11
.....	1,700	84	192	2	1	3	1,700	.....	.....	.....	.....	.....	.....	12
.....	1,600	51	200	2	1	3	1,600	.....	.....	.....	.....	.....	.....	13
.....	1,500	15	200	2	1	3	1,500	.....	.....	.....	.....	.....	.....	14
.....	1,200	35	92	2	1	3	1,200	.....	.....	.....	.....	.....	.....	15
.....	622	25	90	2	2	4	622	.....	.....	.....	.....	.....	.....	16
.....	300	7	50	2	1	3	300	.....	.....	.....	.....	.....	.....	17
.....	107,207	3,249	190	115	40	155	98,957	8,250	.....	.....	.....	.....	.....	.....
3,966,571	550,017	100,943	132	2,605	3,251	5,856	2,288,726	2,227,862	13	53	.....	.....	424	.....

counties—Ninth District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees.					Tons mined.		Blasting coal.		
		Underground.			All above ground.	Total.	By hand.	By machine.	From solid—tons.	Undercut—tons.	Both methods—tons.
		Miners.	Others.	Boys.							
97,694	130	2,490	2,637	87	487	5,701	2,189,769	2,219,612	4,352,765	21,563	35,013

Local mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons.						Total.	Disposition of out-put—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
St. Clair.....	17	103, 833	2, 974	400	.....	.....	.....	107, 207	.....	107, 207
The State..	75	706, 041	2, 425, 970	90, 312	142, 777	870, 292	281, 156	4, 516, 548	3, 966, 571	549, 977

Whole number of mines reported for 1911, 72.

Number of new mines opened during the year, 4.

Number of mines abandoned during the year, 1.

Whole number of mines reported for 1912, 75.

All mines—recapitulation by

Counties	Number of mines.	Productions of different grades in tons.						Total.	Disposition of out-put—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
St. Clair.....	75	706, 041	2, 425, 970	90, 312	142, 777	870, 292	281, 156	4, 516, 548	3, 966, 571	549, 977

counties—Ninth District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees.						Tons mined.		Blasting coal.		
		Underground.			All above ground.	Total.	By hand.	By machine.	From solid—tons.	Undercut—tons.	Both methods—tons.	
		Miners.	Others.	Boys.								
3,249	190	115	.....	.....	40	155	98,957	8,250	.....	.....	.....
100,943	132	2,605	2,637	87	527	5,856	2,288,726	2,227,862	4,352,765	21,563	35,013	

counties—Ninth District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees.						Tons mined.		Blasting coal.		
		Underground.			All above ground.	Total.	By hand.	By machine.	From solid—tons.	Undercut—tons.	Both methods—tons.	
		Miners.	Others.	Boys.								
100,943	132	2,605	2,637	87	527	5,856	2,383,686	2,132,862	-----			

TENTH INSPECTION DISTRICT—1912.

ANNUAL REPORT.

Counties—Jackson, Jefferson, Perry, Randolph, Washington.

THOMAS LITTLE, *Inspector*, Murphysboro.

Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield:

SIR—Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing counties of Jackson, Jefferson, Perry, Randolph, and Washington.

SUMMARY OF THE ITEMS SHOWN IN THE REPORT.

Number of counties producing coal	5
Number of shipping mines	40
Number of local mines	25
Number of new or reopened mines	12
Number of closed or abandoned mines	14
Number of miners	2,555
Others underground, men	2,061
Boys underground	96
Boys above ground	2
Others above ground	490
Total number of employees	5,204
Total tons of coal produced	3,091,428
Days of active operation, all mines	141
Kegs of powder used for blasting coal	67,801
Tons of coal shipped	2,712,107
Tons supplied to locomotives	105,410
Tons sold to local trade	147,590
Tons consumed and wasted at the mines	126,321
Number of fatal accidents	6
Number of non-fatal accidents	21
Number of employees to each fatal accident	867
Number of employees to each non-fatal accident	248
Tons of coal produced to each fatal accident	515,238
Tons of coal produced to each non-fatal accident	147,211
Ratio of fatal accidents per 1,000 employees	1.15

The output of the mines is shown by counties for the years ended June 30, 1911 and 1912, with the increase or decrease, in the following table:

Counties.	Total output—tons.		Increase.	Decrease.
	1911.	1912.		
Jackson	648,551	724,374	75,823	.....
Jefferson	10,732	8,038	.....	2,694
Perry	1,451,080	1,406,317	.....	44,763
Randolph	1,005,447	762,816	.....	242,631
Washington	20,387	189,883	169,496	.....
Total	3,136,197	3,091,428	245,319	290,088
Net decrease .....	.....	.....	.....	44,769

NEW AND ABANDONED MINES.

Four shipping and eight local mines are classed as new mines, while five shipping and nine locals have been abandoned, or closed down during the year.

CHANGE OF NAME.

The Chicago and Carbondale Coal Company, DeSoto, Jackson County, is now operated by the J. B. Kreikemeier Coal Company.

The Jefferson County Coal Co., Mt. Vernon, has changed to the Mt. Vernon Coal Company.

IMPROVEMENTS.

The Mt. Vernon Coal Co., Mt. Vernon, Jefferson County, has bought the mine formerly operated by the Jefferson County Coal Co., and is now making improvements as follows:

Three new boilers, 46 inches by 18 feet long, made by John Mohr & Son; hoisting engines 18 inches by 30 inches; a steel tippie made by the Illinois Steel Company; a shaker, constructed by the same people, having a perforated section of 176 square feet, and is in two sections, making entire perforated surface of 352 square feet; a smoke stack, made of $\frac{1}{4}$ -inch iron, is 5 feet in diameter and 100 feet high, and constructed on a concrete foundation 7 by 7 by 8 feet; a fan, Crawford & McCrimmon make, 12 feet in diameter, with forty-eight blades, and propelled by a Crawford & McCrimmon engine, 8 inches by 10 inches. The buildings are to be constructed of brick, which are already on the ground. The boiler room is 48 by 42 feet and has 16-inch walls. The intention is to open the mine on the panel system with electric machines and electric haulage.

The Nicholson Coal Company, Nashville, Washington County, has retimbered the escapement shaft and put in a new 16-foot fan, made by the Stephens Manufacturing Company, and made needed improvements around the main shaft. The company has bought one hundred acres of coal land, which will increase the output of the mine.

The Moffatt Coal Company, Sparta, Randolph County, has retimbered the main shaft and made it larger, so that larger cars can be put in, thereby increasing the capacity of the mine. The company has installed a pair of first motion engines, 18 inch by 36 inch, made by the Crawford & McCrimmon Manufacturing Company.

The Bald Eagle Coal Company, Winkle, Perry County, has installed two new boilers 72 inch by 20 foot with seventy 4-inch flues, made by the John Rohan & Son's Boiler Works of St. Louis. They are to give 125 H. P. each.

FATAL ACCIDENTS.

The following is a detailed statement of the fatal accidents that have occurred in this inspection district during the year ended June 30, 1912:

September 15, 1911, Abe Goaly, driver, aged 24 years, married, employed in the Missouri & Illinois Coal Company's mine No. 4, Willisville, Perry County, was killed. Deceased was coupling cars, with his head between the cars, and while so doing, another driver came in from behind, bumping the cars together, catching his head between them. He leaves a widow and one child.

September 26, 1911, Arthur Phillips, driver, aged 28 years, married, employed by the Muddy Valley Mining and Mfg. Co., Hallidayboro, Jackson County, was riding on front end of the car, when his foot slipped off the bumper, causing him to be caught between the rib and car. He was injured internally and died the same day. He leaves a widow and one child.

November 21, 1911, Peter Kleigsmite, miner, aged 44 years, married, employed in the Brilliant Coal & Coke Company's mine, Duquoin, Perry County, was killed by falling slate. Deceased had a prop under a piece of slate, which was $5\frac{1}{2}$ by 4 feet 5 inches thick. He was wedging down top

coal inside of the slate, when the slate came down, throwing the prop and striking him on the back of the head, breaking his neck. He leaves a widow and five children.

January 3, 1912, M. C. Bradshaw, shot firer, aged 41 years, married, employed by the DuQuoin Coal Operating Company, DuQuoin, Perry County, was shooting shots in room 6 on the 10th north entry. He had lit a shot on the right hand side of the room and walked over to the left side to light another shot, and before he got away, the shot on the right exploded, killing him instantly. He leaves a widow.

February 9, 1912, John Forrester, miner, aged 49 years, married, employed at the B. O. Cook local mine, DuQuoin, Perry County, was working at the face of entry on top of bottom coal. Deceased had been told by the mine manager to take down a piece of slate which was considered dangerous; he did not do it, but went under it to take up bottom coal, and while doing so, the slate came down, striking him on the back and head. He died two hours after the accident. He leaves a widow and six children.

March 12, 1912, Florence Chesko, miner, aged 45 years, single, employed by the Bessemer Coal & Mining Company, Tilden, Randolph County, was killed. Deceased and four other men got on the cage in the morning to go to work; when the cage was down the shaft about thirty feet, the engineer lost control of the engines, and when the cage struck the bottom of the shaft, deceased fell off into the sump. He was injured internally and died twelve hours after the accident.

Respectfully submitted,

THOMAS LITTLE,

State Inspector of Mines, Tenth District, Murphysboro, Ill.

Fatal casualties—Tenth District—June 30, 1912.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Single.	Widow.	Children.	Dependents.	Cause of death.
1911.										
Sept. 15	Abe Gola.....	24	Driver.....	Willisville.....	1..	1	1	2		Pit car.....
26	Arthur Phillips.....	28	..do.....	Hallidayboro ..	1..	1	1	2		..do.....
Nov. 21	Peter Khligsmith ..	44	Miner.....	Duquoin.....	1..	1	5	6		Falling prop.....
1912.										
Jan. 3	Melvin C. Brayshaw.	41	Shot firer .....	..do.....	1..	1	1	2		Premature shot.....
Feb. 9	John Foster.....	49	Miner.....	..do.....	1..	1	6	7		Falling slate.....
Mar. 10	Florence Chesko	45	..do.....	Tilden.....	..	1	..	..		Cage.....
	Total.....	-	.....	.....	5	1	5	14	19	

Recapitulation of fatal casualties—Tenth District—1912.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Duquoin.....	3	Drivers	2	Cage.....	1	Bessemer.....	1
Hallidayboro.....	1	Miners.....	3	Falling prop.....	1	Brilliant.....	1
Tilden.....	1	Shot firer	1	Falling slate.....	1	Cook, B. O.....	1
Willisville.....	1			Pit cars.....	2	Duquoin Operating.....	1
				Premature shot.....	1	Missouri & Illinois.....	1
						Muddy Valley.....	1
Total	6	.....	6	.....	6	.....	6

Non-fatal casualties—Tenth District—June 30, 1912.

Date.	Name.	Age.	Residence.	Married. Single.	Children.	Dependents.	Character of injury and cause of accident.	Time lost—days.
1911.								
Aug. 7	Thomas Seamon.....	29	Murphysboro.....	1	2	3	Body injured, falling slate.....	35
12	Elbert Harrell.....	40	Sparta.....	1	1	2	Foot injured, railroad switch.....	50
14	C. Faverturp.....	22	Murphysboro.....	1	1	1	Hand injured, pit car.....	33
Sept. 2	August Garman.....	65	Willisville.....	1	1	2	Back injured, falling coal.....	31
21	Walter Chaney.....	26	Murphysboro.....	1	1	1	Body injured, pit car.....	45
Oct. 17	O. G. Hearn.....	45	do.....	1	6	7	Leg injured, falling coal.....	41
Nov. 13	Rollin Richards.....	39	do.....	1	3	4	Eye injured, rail.....	34
16	Edward Odin.....	24	do.....	1	1	1	Body injured, kicked by mule.....	65
Dec. 5	Gene Tenwills.....	34	do.....	1	2	3	Leg injured, falling coal.....	31
9	Henry Bardo.....	24	Sparta.....	1	1	2	Foot injured, switch.....	50
11	Robert Sharp.....	40	Duquoin.....	1	1	1	Back broken, falling slate.....	*
12	Edward Kennedy.....	25	do.....	1	1	2	Leg injured, pit car.....	45
29	Thos. Foster.....	40	do.....	1	1	1	Foot injured, pit car.....	30
1912.								
Jan. 23	Nick Messins.....	40	Murphysboro.....	1	5	6	Ankle broken, tail rope.....	37
Feb. 19	Alex Kiepler.....	19	Tilden.....	1	1	1	Leg injured, pit car.....	41
20	Fiper Chappell.....	19	do.....	1	2	3	Foot broken, pit car.....	33
Mar. 11	Charles Grills.....	21	Duquoin.....	1	1	1	Foot injured, pit car.....	30
22	Gas. Curty.....	40	Pinckneyville.....	1	2	3	Back injured, falling slate.....	70
May 9	R. E. Shook.....	33	Tilden.....	1	2	3	Arm broken, railroad car.....	60
11	W. D. Kurmmell.....	48	Elkville.....	1	2	3	Leg injured, falling coal.....	*
15	Chas. Hasker.....	29	Duquoin.....	1	1	1	Ankle injured, flying plug.....	60
	Total.....			16	5	30	46	

* Not returned to work July 1, 1912.

Total number injured.....	21
Number not returned to work, July 1, 1912.....	2

Number returned to work.....	19
------------------------------	----

Time lost by men returned to work—days.....	821
Average time lost—days.....	43.21

Recapitulation of non-fatal casualties—Tenth District—1912.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Duquoin.....	5	Blacksmith.....	1	Falling coal.....	4	Anderson, J.....	1
Elkville.....	1	Drivers.....	8	Falling slate.....	3	Bessemer.....	2
Murphysboro.....	8	Laborer.....	1	Flying plug.....	1	Big Muddy C. & I.....	8
Pinckneyville.....	1	Machine runner.....	2	Mule, kicked by.....	1	Blair, Gus.....	1
Sparta.....	2	Miners.....	8	Pit cars.....	7	Illinois Fuel.....	1
Tilden.....	3	Shot firer.....	1	Rail.....	1	Jones Bros.....	1
Willisville.....	1			Railroad car.....	1	Majestic.....	1
				Switch.....	2	Missouri & Illinois.....	1
				Tail rope.....	1	Morris, J.....	1
						Security.....	3
						Wilson Bros.....	1
Total.....	21		21		21		21

Recapitulation of non-fatal casualties, nature of injuries, conjugal relations and time lost—Tenth District—1912.

Nature of injuries.	Number.	Married.	Single.	Children.	Dependents.	Time lost—days.		Percentage of injuries.
						Total.	Average.	
Ankle broken.....	1	1	.....	5	6	37	37.00	4.76
Ankle injured.....	1	1	.....		1	60	60.00	4.76
Arm broken.....	1	1	.....	2	3	60	60.00	4.76
Back broken.....	1	.....	1	.....	.....	.....	.....	4.76
Backs injured.....	2	2	.....	3	5	101	50.50	9.53
Bodies injured.....	3	1	2	2	3	145	48.33	14.29
Eye injured.....	1	1	.....	3	4	34	34.00	4.76
Feet broken.....	1	1	.....	2	3	33	33.00	4.76
Feet injured.....	4	2	2	2	4	160	40.00	19.05
Hand injured.....	1	1	.....		1	33	33.00	4.76
Legs injured.....	5	5	.....	11	16	158	39.50	23.81
Total.....	21	16	5	30	46	821	43.21	100.00

Jackson County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	Big Muddy C. & I. Co., No. 9.....	Murphysboro..	46, 233	75, 701	94, 511	216, 445
2	Muddy Valley Mining Co.....	Hallidayboro..	46, 746	37, 404	89, 092	173, 242
3	Big Muddy C. & I. Co., Harrison.....	Murphysboro..	13, 535	45, 820	54, 916	114, 271
4	Gartside Coal Co., No. 4.....	do.....	17, 805	29, 635	21, 537	68, 977
5	Gus. Blair Big Muddy C. Co., No. 1.....	do.....	3, 516	40, 651	20, 022	64, 189
6	J. B. Kreikemeier C. Co., Little Hope.....	DeSoto.....	12, 000	8, 070	6, 679	26, 749
7	Gus. Blair Big M. C. Co., No. 2.....	Murphysboro..	442	12, 949	10, 593	23, 984
Total.....			140, 277	250, 230	297, 350	687, 857
LOCAL MINES.						
1	Schmidgall Coal Co.....	Murphysboro..	10, 636			10, 636
2	J. B. Schimpf.....	Vergennes.....	1, 000	7, 300		8, 300
3	J. B. Wood.....	Carbondale.....	6, 000			6, 000
4	H. S. Phillips.....	do.....		2, 000	1, 200	3, 200
5	George W. Patrick.....	do.....		700	1, 300	2, 000
6	Wm. Bullar.....	DeSoto.....	1, 500			1, 500
7	Phillips & Johnson M. Co.....	Carbondale.....	1, 045		100	1, 145
8	Ab. Boden & J. Craig.....	DeSoto.....		400	700	1, 100
9	Schimpf & Craig.....	Ava.....		800		800
10	W. F. Johnson.....	do.....		800		800
11	W. R. Campbell.....	Mathews.....	33	459	16	508
12	Mike Kirby.....	Campbell Hill.....		253		253
13	Bane & Ellace.....	DeSoto.....	150			150
14	V. L. Church.....	Ava.....		125		125
Total.....			20, 364	12, 837	3, 316	36, 517
Total—21 mines.....			160, 641	263, 067	300, 666	724, 374

Mines reported for 1911, 26.

New mines, 4.

Abandoned mines, 9.

Mines for 1912, 21.

Tenth District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Ac-cidents.		Blasting coal—from solid or undercut or both.	Number of animals under-ground.	
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.
204,615	11,830	1,852	167	152	93	245	.....	216,445	.....	3	U. C.	16	1
107,582	65,660	5,333	139	132	114	246	173,242	.....	1	1	Solid.	22	2
101,810	12,461	882	125	130	81	211	.....	114,271	.....	3	U. C.	12	3
44,277	24,700	850	180	18	87	105	13,723	55,254	.....	.....	do.	14	4
59,575	4,614	465	197	2	94	96	511	63,678	.....	2	do.	6	5
24,999	1,750	573	92	100	17	117	26,749	.....	.....	.....	do. ....	.....	6
13,874	10,110	233	210	2	49	51	2,434	21,550	.....	.....	do. ....	.....	7
556,732	131,125	10,188	159	536	535	1,071	216,659	471,198	1	9	.....	70	.....
.....	10,636	149	161	.....	29	29	2,055	8,581	.....	.....	.....	.....	1
.....	8,300	60	140	3	3	6	8,300	.....	.....	.....	.....	.....	2
.....	6,000	100	300	6	1	7	6,000	.....	.....	.....	.....	.....	3
.....	3,200	130	150	4	1	5	3,200	.....	.....	.....	.....	.....	4
.....	2,000	140	150	4	4	8	2,000	.....	.....	.....	.....	.....	5
.....	1,500	75	150	3	1	4	1,500	.....	.....	.....	.....	.....	6
.....	1,145	60	180	2	2	4	1,145	.....	.....	.....	.....	.....	7
.....	1,100	50	150	3	.....	3	1,100	.....	.....	.....	.....	.....	8
.....	800	85	120	4	4	8	800	.....	.....	.....	.....	.....	9
.....	800	50	90	4	1	5	800	.....	.....	.....	.....	.....	10
.....	508	.....	90	2	.....	2	508	.....	.....	.....	.....	.....	11
.....	253	52	240	1	.....	1	253	.....	.....	.....	.....	.....	12
.....	150	6	60	2	1	3	150	.....	.....	.....	.....	.....	13
.....	125	9	60	2	.....	2	125	.....	.....	.....	.....	.....	14
.....	36,517	966	146	40	47	87	27,936	8,581	.....	.....	.....	.....	.....
556,732	167,642	11,154	150	576	582	1,158	244,595	479,779	1	9	.....	70	.....

Jefferson County—

Number	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	Mt. Vernon Coal Co., Mt. V.....	Mt. Vernon.....	7,958			7,958
LOCAL MINE.						
1	Sophia A. Shelton.....	Opdyke.....		80		80
	Total—2 mines.....		7,958	80		8,038

Mines reported for 1911, 2.

Mines in 1912, 2.

Tenth District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Ac-cidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
3,122	4,836	328	143	20	25	45	7,958	.....	....	....	Solid...	....	4	1
.....	80	.....	50	3	.....	3	80	.....	....	....	.....	.....	.....	1
3,122	4,916	328	96	23	25	48	8,038	.....	....	....	.....	.....	4	

Perry County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	Willis Coal & M. Co., No. 1.....	Willisville.....	222,541			222,541
2	Majestic C. & C. Co., Majestic.....	Duquoin.....	176,038			176,038
3	Paradise Coal Co., Paradise.....	..do.....	51,361	43,697	78,731	173,789
4	Duquoin Operating Co., Queen.....	..do.....	169,416			169,416
5	Security C. & M. Co., No. 1.....	..do.....	5,928	32,330	92,317	130,575
6	Mo. & Ill. Coal Co., No. 4.....	Willisville.....	125,583	1,052	2,077	128,712
7	Ritchey Coal Co., No. 1.....	Pinckneyville.....	92,612			92,612
8	Brilliant C. & C. Co., Home Mine.....	Duquoin.....		20,595	41,185	61,780
9	Bald Eagle Mining Co.....	Craig.....	5,890	22,318	29,290	57,498
10	St. L.-Coulterville Coal Co., Vulcan.....	Coulterville.....	2,396	18,816	15,980	37,192
11	Johnson-Allen Coal Co., Barnard.....	Cutler.....	37,000			37,000
12	Little Muddy Fuel Co., Little M.....	Tamaroa.....	6,418	9,350	7,012	22,780
13	Bessemer C. & M. Co., White Walnut.....	Pinckneyville.....	18,002			18,002
14	Bailey Bros. Coal Co., Diamond.....	Sunfield.....	925	7,605	8,001	16,531
15	Wilson Coal Co., Galum.....	Cutler.....	8,795	10,064	3,271	22,130
16	Joe Morris Coal Co., No. 2.....	Duquoin.....		7,887	4,096	11,983
17	Bailey Bros. Coal Co., No. 3.....	Sunfield.....	2,215	4,535	3,365	10,115
18	Straif Coal Co., No. 1.....	Pinckneyville.....	3,669		177	3,846
19	Orion Coal Co., Jupiter No. 5.....	Duquoin.....	2,400			2,400
Total.....			931,189	178,249	285,502	1,394,940
LOCAL MINES.						
1	B. O. Cook.....	Duquoin.....	4,758			4,758
2	John Anderson.....	Pinckneyville.....		2,500	1,040	3,540
3	New Moon Mining Co.....	Duquoin.....	2,500			2,500
4	J. Schneider & Beck, Norburg.....	Pinckneyville.....		356	178	534
5	C. A. House & Co.....	St. John.....		30	15	45
Total.....			7,258	2,886	1,233	11,377
Total—24 mines.....			938,447	181,135	286,735	1,406,317

Mines reported for 1911, 23.

New mines, 4.

Abandoned mines, 3.

Mines, in 1912, 24.

Tenth District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Accidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.	
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.
213,836	8,705	2,247	218	.....	236	236	.....	222,541	.....	.....	U. C.	12	1
170,000	6,038	5,399	92	300	90	390	176,038	.....	1	1	Solid.	23	2
143,255	30,534	2,518	114	50	160	210	31,161	142,628	.....	.....	U. C.	18	3
165,000	4,416	4,600	132	165	70	235	169,416	.....	1	.....	Solid. ....	.....	4
127,843	2,732	1,806	154	.....	233	233	.....	130,575	.....	3	U. C.	14	5
127,204	1,508	1,362	179	.....	136	136	1,803	126,909	1	1	do. ....	.....	6
60,568	32,044	1,245	206	.....	122	122	.....	92,612	.....	.....	do.	7	7
58,130	3,650	1,443	150	90	39	129	45,452	16,328	1	.....	do.	10	8
52,000	5,498	2,305	182	98	51	149	41,987	15,511	.....	.....	do.	8	9
32,916	4,276	1,296	101	50	21	71	37,192	.....	.....	.....	Solid.	5	10
37,000	.....	1,233	110	50	8	58	37,000	.....	.....	.....	do.	7	11
18,708	4,072	1,019	61	68	30	98	22,780	.....	.....	.....	do.	8	12
12,005	5,997	681	23	137	49	186	18,002	.....	.....	.....	do.	12	13
14,135	2,396	659	133	30	10	40	16,531	.....	.....	.....	do. ....	.....	14
15,202	6,928	806	175	21	6	27	22,130	.....	.....	.....	do.	2	15
10,983	1,000	399	205	17	5	22	11,983	.....	.....	1	do.	2	16
8,275	1,840	429	113	18	7	25	10,115	.....	.....	.....	do.	3	17
1,231	2,615	180	105	6	4	10	3,846	.....	.....	.....	do.	1	18
2,200	200	80	20	20	5	25	2,400	.....	.....	.....	do.	1	19
1,270,491	124,449	29,707	130	1,120	1,282	2,402	647,836	747,104	3	6	.....	.....	133
.....	4,758	125	200	6	2	8	4,758	.....	1	.....	.....	.....	1
.....	3,540	140	200	5	1	6	3,540	.....	.....	1	.....	.....	2
.....	2,500	125	175	1	4	5	2,500	.....	.....	.....	.....	.....	3
.....	534	28	60	4	2	6	534	.....	.....	.....	.....	.....	4
.....	45	2	30	2	1	3	45	.....	.....	.....	.....	.....	5
.....	11,377	420	133	18	10	28	11,377	.....	1	1	.....	.....	.....
1,270,491	135,826	30,127	131	1,138	1,292	2,430	659,213	747,104	4	7	.....	.....	133

Randolph County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	Willis C. & M. Co., Goalby No. 6	Percy	152, 679	25, 800	10, 300	188, 779
2	Wilson Bros Coal Co., Eden No. 7	Sparta	16, 680	62, 161	33, 471	112, 312
3	Illinois Fuel Co., No. 4	do	26, 348	47, 242	23, 918	97, 508
4	Moffatt Coal Co., No. 1	do	24, 039	38, 284	27, 641	89, 964
5	Jones Bros. C. & M. Co., Eureka No. 2.	Marissa	2, 280	51, 636	34, 424	88, 340
6	Randolph Co. Coal M. Co.	Coulterville	34, 120	10, 105	10, 781	55, 006
7	Bessemer C. & M. Co., Crystal	Tilden	22, 779	12, 008	4, 504	39, 291
8	Boyd Coal & Coke Co., No. 1.	Sparta	36, 678	1, 273		37, 951
9	Bessemer C. & M. Co., Tilden	Tilden	4, 415	10, 873	5, 023	20, 311
10	West Mine Coal Co., Consol.	Coulterville	3, 006	8, 026	4, 012	15, 044
Total			323, 024	267, 408	154, 074	744, 506
LOCAL MINES.						
1	J. C. Boyle	Sparta	7, 077	3, 200	3, 877	14, 154
2	J. W. Bixby	do		2, 000	85	2, 085
3	E. Jones & Son	do		1, 000	125	1, 125
4	Adams Bros.	Willisville	946			946
Total			8, 023	6, 200	4, 087	18, 310
Total—14 mines.			331, 047	273, 608	158, 161	762, 816

Mines reported for 1911, 14.

Mines in 1912, 14.

Tenth District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Ac-cidents.		Blasting coal—from solid or undercut or both.	Number of animals under-ground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
184,915	3,864	3,058	180	-----	221	221	-----	188,779	-----	-----	U. C.	10	1	
109,018	3,294	2,875	232	37	68	105	42,740	69,572	1	1	Both.	6	2	
94,987	2,521	1,464	132	90	60	150	-----	97,508	-----	-----	U. C.	18	3	
87,064	2,900	1,344	143	-----	139	139	-----	89,964	-----	-----	do.	19	4	
84,958	3,382	3,155	122	95	22	117	88,340	-----	-----	1	Solid.	7	5	
50,930	4,076	2,122	158	58	19	77	55,006	-----	-----	-----	do.	6	6	
36,357	2,934	1,459	47	88	33	121	39,291	-----	-----	1	do.	12	7	
34,889	3,062	1,514	191	50	20	70	37,951	-----	-----	-----	do.	5	8	
19,938	373	731	35	60	28	88	20,311	-----	1	1	do.	10	9	
12,971	2,073	752	102	26	13	39	15,044	-----	-----	-----	do.	4	10	
716,027	28,479	18,474	134	504	623	1,127	298,683	445,823	1	5	-----	-----	97	
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
-----	14,154	360	218	5	2	7	14,154	-----	-----	-----	-----	-----	-----	1
-----	2,085	110	100	4	1	5	2,085	-----	-----	-----	-----	-----	-----	2
-----	1,125	120	300	4	-----	4	1,125	-----	-----	-----	-----	-----	-----	3
-----	946	54	76	4	2	6	946	-----	-----	-----	-----	-----	-----	4
-----	18,310	644	173	17	5	22	18,310	-----	-----	-----	-----	-----	-----	-----
716,027	46,789	19,118	145	521	628	1,149	316,993	445,823	1	5	-----	-----	97	

Washington County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	Centralia Coal Co., No. 5	Centralia	141,955	4,693	6,313	152,961
2	Nicholson Coal Co.	Nashville		10,705	7,137	17,842
3	Adam Kuhn, DuBois.....	DuBois.....	2,000	10,000	5,280	17,280
	Total		143,955	25,398	18,730	188,083
LOCAL MINES.						
1	Pb. Laumbattus	Lenzburg	1,800			1,800
	Total—4 mines		145,755	25,398	18,730	189,883

Mines reported for 1911, 2.

New mines, 4.

Abandoned mines, 2.

Mines in 1912, 4.

Shipping mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons.						Total.	Disposition of out-put—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
Jackson	7	140,277	250,230	39,574	19,447	214,295	24,034	687,857	556,732	131,125
Jefferson	1	7,958	.....	.....	.....	.....	.....	7,958	3,122	4,836
Perry	19	931,189	178,249	57,021	68,372	133,841	26,268	1,394,940	1,270,491	124,449
Randolph	10	323,024	267,408	17,980	11,364	114,481	10,249	744,506	716,027	28,479
Washington...	3	143,955	25,398	713	2,000	10,483	5,534	188,083	165,735	22,348
Total	40	1,546,403	721,285	115,288	101,183	473,100	66,085	3,023,344	2,712,107	311,237

Tenth District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Accidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
148,707	4,254	5,448	83	200	89	289	131,961	21,000	.....	.....	Solid.....	.....	1	1
6,028	11,814	990	148	50	18	68	17,842	.....	.....	.....	do.....	.....	5	2
11,000	6,280	576	117	45	14	59	17,280	.....	.....	.....	do.....	.....	4	3
165,735	22,348	7,014	116	295	121	416	167,083	21,000	.....	.....	.....	.....	10	
.....	
.....	1,800	60	300	2	1	3	1,800	.....	.....	.....	.....	.....	.....	1
165,735	24,148	7,074	161	297	122	419	168,883	21,000	.....	.....	.....	.....	10	

counties—Tenth District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees.					Tons mined.		Blasting coal.		
		Underground.				Total.	By hand.	By machine.	From solid—tons.	Undercut—tons.	Both methods—tons.
		Miners.	Others.	Boys.	All above ground.						
10,188	159	536	369	38	128	1,071	216,659	471,198	173,242	514,615	.....
328	143	20	21	.....	4	45	7,958	.....	7,958	.....	.....
29,707	130	1,120	1,040	33	209	2,402	647,836	747,104	527,433	867,507	.....
18,474	134	504	523	18	82	1,127	298,683	445,823	255,943	376,251	112,312
7,014	116	295	84	6	31	416	167,083	21,000	188,083	.....	.....
65,711	135	2,475	2,037	95	454	5,061	1,338,219	1,685,125	1,152,659	1,758,373	112,312

Local mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons.						Total.	Disposition of out-put—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
Jackson.....	14	20,364	12,837	.....	.....	700	2,616	36,517	.....	36,517
Jefferson.....	1	.....	80	.....	.....	.....	.....	80	.....	80
Perry.....	5	7,258	2,886	.....	.....	1,040	193	11,377	.....	11,377
Randolph.....	4	8,023	6,200	.....	85	.....	4,002	18,310	.....	18,310
Washington...	1	1,800	.....	.....	.....	.....	.....	1,800	.....	1,800
Total	25	37,445	22,003	.....	85	1,740	6,811	68,084	.....	68,084
The District...	65	1,583,848	743,288	115,288	101,268	474,840	72,896	3,091,428	2,712,107	379,321

Whole number of mines reported for 1911, 67.

Number of new mines opened during the year, 12.

Number of mines abandoned during the year, 14.

Whole number of mines reported for 1912, 65.

All mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons.						Total.	Disposition of out-put—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
Jackson.....	21	160,641	263,067	39,574	19,447	214,995	26,650	724,374	556,732	167,642
Jefferson.....	2	7,958	80	.....	.....	.....	.....	8,038	3,122	4,916
Perry.....	24	938,447	181,135	57,021	68,372	134,881	26,461	1,406,317	1,270,491	135,826
Randolph.....	14	331,047	273,608	17,980	11,449	114,481	14,251	762,816	716,027	46,789
Washington...	4	145,755	25,398	713	2,000	10,483	5,534	189,883	165,735	24,148
Total	65	1,583,848	743,288	115,288	101,268	474,840	72,896	3,091,428	2,712,107	379,321

counties—Tenth District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees.					Tons mined.		Blasting coal.		
		Underground.			All above ground.	Total.	By hand.	By machine.	From solid—tons.	Undereut—tons.	Both methods—tons.
		Miners.	Others.	Boys.							
966	146	40	24	1	22	87	27,936	8,581	.....	.....	.....
.....	50	3	.....	.....	.....	3	80	.....	.....	.....	.....
420	133	18	.....	.....	10	28	11,377	.....	.....	.....	.....
644	173	17	.....	.....	5	22	18,310	.....	.....	.....	.....
60	300	2	.....	.....	1	3	1,800	.....	.....	.....	.....
2,090	150	80	24	1	38	143	59,503	8,581	.....	.....	.....
67,801	141	2,555	2,061	96	492	5,204	1,397,722	1,693,706	1,152,659	1,758,373	112,312

counties—Tenth District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees.					Tons mined.		Blasting coal.		
		Underground.			All above ground.	Total.	By hand.	By machine.	From solid—tons.	Undereut—tons.	Both methods—tons.
		Miners.	Others.	Boys.							
11,154	150	576	393	39	150	1,158	244,595	479,779	.....	.....	.....
328	96	23	21	.....	4	48	8,038	.....	.....	.....	.....
30,127	131	1,138	1,040	33	219	2,430	659,213	747,104	.....	.....	.....
19,118	145	521	523	18	87	1,149	316,993	445,823	.....	.....	.....
7,074	161	297	84	6	32	419	168,883	21,000	.....	.....	.....
67,801	141	2,555	2,061	96	492	5,204	1,397,722	1,692,706	.....	.....	.....

ELEVENTH INSPECTION DISTRICT—1912.

ANNUAL REPORT.

Counties—Franklin, Gallatin, Saline, White.

FRANK ROSBOTTOM, *Inspector*, Benton.

Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield:

SIR—Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing counties of Franklin, Gallatin, Saline and White.

SUMMARY OF THE ITEMS SHOWN IN THE REPORT.

Number of counties producing coal.....	4
Number of shipping mines.....	38
Number of local mines.....	19
Number of new or reopened mines.....	4
Number of closed or abandoned mines.....	6
Number of miners.....	1,010
Others underground, men.....	7,309
Boys underground.....	161
Boys above ground.....	13
Others above ground.....	884
Total number of employees.....	9,377
Total tons of coal produced.....	8,220,784
Days of active operation, all mines.....	179
Kegs of powder used for blasting coal.....	80,969
Tons of coal shipped.....	7,876,035
Tons supplied to locomotives.....	47,656
Tons sold to local trade.....	111,133
Tons consumed and wasted at the mines.....	185,960
Number of fatal accidents.....	40
Number of non-fatal accidents.....	123
Number of employees to each fatal accident.....	234
Number of employees to each non-fatal accident.....	76
Tons of coal produced to each fatal accident.....	205,520
Tons of coal produced to each non-fatal accident.....	66,836
Ratio of fatal accidents per 1,000 employees.....	4.27

The following table shows the output for the years ended June 30, 1911 and 1912, by counties with the increase.

Counties.	Total output—tons.		Increase.
	1911.	1912.	
Franklin.....	2,356,439	4,026,815	1,670,376
Gallatin.....	65,106	73,620	8,514
Saline.....	3,232,736	4,088,575	855,839
White.....	29,271	31,774	2,503
Total.....	5,683,552	8,220,784	2,537,232

ABANDONED MINES.

Six mines heretofore reported as local mines have been abandoned.

NEW MINES.

The second shaft in the district to be completed under the new law, requiring them to be constructed of fireproof material, was sunk by the United Coal Mining Company at Buckner, Franklin County, and is known as its No. 2 mine.

The work of sinking the shaft for this mine was begun Oct. 25, 1910. This work was made unusually difficult by the reason of the fact that at about 35 feet from the surface something like 12 feet to 15 feet of quick sand was encountered which necessitated the use of interlocking steel channel bars. Coal was reached May 28, 1911.

The depth of the main shaft is 447 feet, and is 11 feet by 19 feet in dimension. It is curbed in the usual way with 3-inch yellow pine timbers, but a solid concrete wall was used for 35 feet down from the surface and 35 feet from the bottom. Steel buntons were used in both shafts and the sides were lined between the concrete with galvanized iron.

The escapement shaft is built in the same way and is equipped with a man and material hoist, the cage being 4 feet 6 inches by 4 feet 2 inches. The air chambers are 10 feet 6 inches by 11 feet. The steps are made of steel.

Air is furnished to the mine by means of a Capelle fan, 13 feet 6 inches in diameter by 6 feet, with a capacity of 400,000 cubic feet per minute, against 3-inch water gauge.

The mine is equipped with electric haulage and will eventually use fifteen haulage motors, including gathering motors, and about twenty-five chain breast undercutting machines of Goodman Manufacturing Company's make.

The bottom is equipped with Phillips' automatic cager, and electricity will be used for pumping and lighting the mine. The overcasts are built of concrete and steel "I" beams and all stoppages are to be made permanent.

The anticipated output is 4,000 tons per day. The mine will be developed on the panel system and will use mine cars of 4-ton capacity, running on 50 pound iron in the main entry, 40 pound in the cross entries and 30 pound in the rooms.

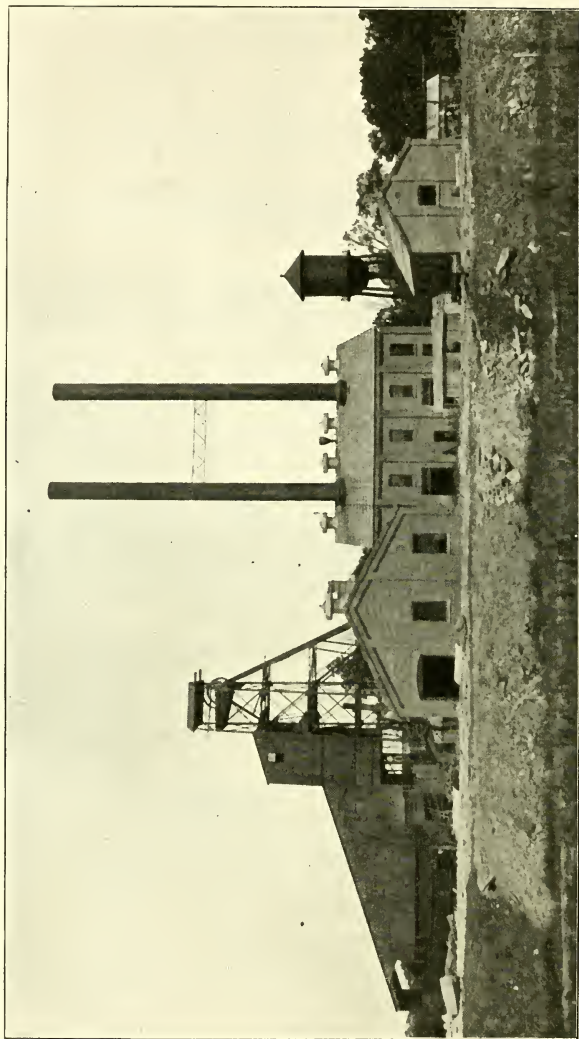
LOCATION, RAILROAD CONNECTION, ETC.

This mine is located about two miles east and south of No. 1 mine, which is a mile east of Christopher. This location was selected; first, because it placed the mine in the center of the field which is to be developed; and, second, because such location made it convenient to secure railroad connection with both the Illinois Central and the Chicago, Burlington and Quincy railroads.

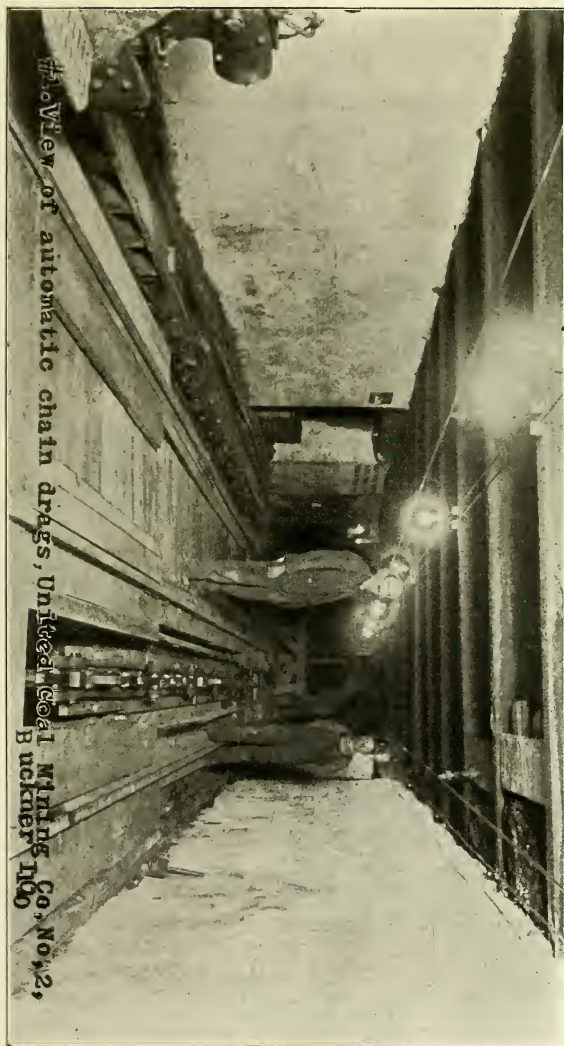
The tracks forming the working yard for this mine, run in an eastwardly and westwardly direction, with the empty storage tracts on the west. The connection from the Illinois Central is made by a spur coming in from the north which forms into a "Y" connecting to the empty and loaded yards. The C., B. & Q. comes in from the south and connects in the same manner, thus forming a double "Y." The mining plant is located within this "Y" and therefore has a unique arrangement, not only as regards the receiving of empties and the taking out of loads, but also for the receiving of all mine supplies, etc.

Empty cars from the storage tracks are brought down over the railroad track scale and weighed before being delivered to the tracks under the tippie. After being loaded, they are passed out over another railroad track scale, and all loads are thus weighed on a single scale before being delivered to the storage yard.

The entire plant was designed and built by Roberts and Schaefer Co., McCormick bldg., Chicago, Ill. Each unit of the plant forming to complete the works; both the main shaft and the air shaft and the entire under-



United Coal Mining Co.'s No. 2 Mine, Buckner, Franklin County.



ground arrangement, was very carefully planned, not only to meet the large capacity above named, but to enable this amount of coal to be hoisted, screened and marketed in the best possible condition and at the least expense.

The top works consist of a four-track steel tippie, complete with all the weighing, screening and loading equipment; a combined power plant including hoisting engines, electrical equipment and boiler plant; boiler house, coal conveyor, including overhead steel storage tanks and steel spouts for delivering coal to automatic stokers; ash handling equipment, including ash tunnel under the boilers, steel ash car and hoist for delivering ashes into hopper located outside of building; a complete repair shop including blacksmith, machine and car repair departments; a supply house containing store room, oil room and bookkeeper's office; an auxiliary hoisting plant in a separate compartment of the air shaft for hoisting men and materials during working hours; a ventilating plant consisting of a medium speed steel plate, steel housed fan, direct connected to a four-valve engine all housed in concrete; a double fireproof and weather proof power house; a complete water system consisting of reservoir, electric driven pump, cast iron water lines, elevated steel tank and distributing system; complete electric lighting system and a small office for mine superintendent and clerk located near railroad scale.

This entire plant, excepting the office, is of concrete, steel and brick construction, and therefore, is absolutely fireproof, and is as near permanent as the present art permits.

The accompanying illustrations show some of the principal parts of the plant, but as the machinery equipment used in this plant is of a much higher grade than it has been customary to install in mining plants, a brief description of this equipment will doubtless be of interest.

TIPPLE EQUIPMENT.

The tippie is provided with the standard weight hopper arrangement for weighing mine-run coal, but this coal, instead of being dumped on to shaker screens in pit car quantities, which in this case amounts to four tons, is dumped into a receiving hopper from which the coal is fed regularly onto the screens by a reciprocating feeder. The shaker screens are of a new type which enable mine-run coal to be made on the lump track without the use of cover plates. The screens are of the roller type and are 10 feet wide, the upper screen having a double deck for making both slack and nut coal, and the lower screen a single deck for taking the egg out of the lump coal. A small hopper is placed beneath the screens over each track to receive a small amount of coal which enables cars to be changed beneath the tippie without interruption of hoisting and dumping coal. This hopper over the egg and nut tracks contains lip screens for the rescreening of coal before being loaded out. The slack taken out of the egg and lump coal is carried back by a small conveyor to the slack car. The coal on the track is delivered into the cars by the use of end loading chutes which can be raised and lowered so as to deliver the coal into the cars with the least breakage possible.

POWER PLANT MACHINERY.

The hoisting engines are a pair of 28 by 48 feet direct connected to a pair of 8 feet diameter drums. These engines have steam brake, steam reverse and all other modern appliances for safety and convenience in operating.

The present electrical equipment consists of one, 250 K. W. generator direct connected to a 375 horse power, four valve engine and small lighting unit for use when the large machine is not running.

The six panel switchboard contains a full complement of Wattmeters, ammeters, volt meters, circuit breakers, rheostats for field, control for the generators and a complete set of switches to care for the various circuits, such as underground, tippie, fan, lighting, etc. The board also carries on one independent panel, a set of steam recording instruments.

The boiler plant consists of four 335 horse power water tube boilers set up in batteries of two, with separate steel stack for each battery. These boilers are finished with "Model" automatic stokers by which it is fired automatically from the steel bunkers overhead.

The usual feed water heaters, feed water pumps, etc., were also installed, the latter being in duplicate, cross connected to enable either pump to supply the boilers while the other pump is being repaired.

The water supply is measured by a meter which, with the other equipment above mentioned, permitted complete boiler tests being made; and, this company stands ready at all times to make such tests to show its customers the excellent steaming qualities of this coal.

AUXILIARY HOISTING PLANT.

This consists of a small pair of direct connected hoisting engines operating a platform cage working in a separate compartment of the air shaft. The object of installing this separate hoist was to avoid any interruption in hoisting at the main shaft during working hours. When it is necessary, during such hours, to raise or lower men or materials, it will be done with this auxiliary hoist.

VENTILATING PLANT.

The air is furnished by a direct blowing, reversible, double inlet, medium speed, steel plate fan which is direct connected to a high grade, four-valve engine. The fan and housing for same, including connection to air shaft, are entirely of steel. The housing for the side drifts and the engine room is all of reinforced concrete. The entire construction is therefore both permanent and fireproof.

WATER SUPPLY.

A word regarding the water supply for this mine may be of interest, as the pump at the reservoir is electrically driven and electrically controlled by a float switch in the water tank near the boiler plant. The connection from this pump to the tank is a 6-inch cast iron line, and the steel tank holds 30,000 gallons and is supported on a steel structure. This unit of the plant is therefore in keeping with the high grade equipment used throughout.

In addition to the above, three mines of the local class are listed in this report as new mines.

CHANGE IN NAME.

The Brazil Block Coal Company's mines No. 11 and No. 18, have passed into the hands of W. C. Niblack, receiver of the Dering Coal Co.

The Wilmington Star Mining Co.'s No. 8 has changed to Ohio Valley Mining Company No. 8.

The Harrisburg Big Muddy Coal Company No. 12 and No. 14, also Harrisburg, Saline County Coal Co., No. 15, have changed to O'Gara Coal Co., Nos. 12, 14 and 15.

The Galatia Coal Company has changed to St. Louis Coal and Coke Company.

MINE FIRE.

As a result of a fire of mysterious origin, the W. P. Rend Colliers Company's recleaning plant was destroyed June 18, 1911. The structure was a short distance from the main shaft, and contained about 200 tons of coal. The box car loader was also in danger of being destroyed when the fire was noticed, but by being stationed on wheels to fit the railroad track it was speedily removed.

DESTROYED BY CYCLONE.

The Southern Illinois Coal and Coke Company suffered the loss of their engine room and boiler house by a cyclone that came from the northwest on Sunday evening, April 21. The storm struck the west end of the boiler room and threw the roof on the top of the engine room, completely smashing it, also tearing out the sides of the latter building. The steel tippie and the machine shop was not damaged. The boiler and engine rooms were constructed largely of pine timbers covered with corrugated steel. The machinery was very little damaged, the main steam line was thrown out of line about two feet, and some oil cups on the hoisting engines broken. No damage was done to the boilers or compressors.

IMPROVEMENTS.

The Sesser Coal Company has installed a new pair of first motion hoisting engines 28 by 48, built by the Danville Foundry and Manufacturing Company, a rescreeing plant with a bin capacity of 820 tons, built by Garcia & Allen Construction Company, a 50-foot Fairbanks railroad track scale, and one new boiler 6 feet diameter, 18 feet long with 72-4 inch flues, built by the Atlas Engine Works.

The United Coal Mining Company, No. 1, has added to its haulage system four 6-ton gathering motors. Twelve mules have been taken out of the mine with the introduction of the motors.

W. C. Niblack, receiver of Dering Coal Co.'s mine, No. 11, has installed two new Bond cages, one air compressor 18 by 20 feet, one hundred new mine cars, capacity $2\frac{1}{2}$ tons, which is a great improvement to the plant. This company has also made the following improvements at mine No. 18: Installed new feed pump in the boiler room, one air driven hammer in blacksmith shop, also drill and lathe and one 125 K. W. generator for lighting purposes.

The Carroll and Franklin Coal Company has added two new Bond cages.

Hart-Williams Coal Company has installed one 6-ton Morgan Gardener gathering motor, which reduces the number of mules from 30 to 16.

Zeigler District Colliery Company has installed six Jeffery electric mining machines, one 6-ton gathering motor, General Electric Co., also one hundred new mine cars, with a capacity of three tons each.

The West Frankfort Coal Company has added to its plant a pair of new first motion Litchfield hoisting engines, size 24 by 42 feet, with an 8-foot diameter drum; one new 150 horsepower boiler, 6 feet in diameter, 18 feet long, with seventy 3-inch flues; two new H. and H. cages; a shaker screen 9 feet by 40 feet, with scales 15 ton capacity; one 250 K. W. generator Morgan-Gardener type; two Morgan-Gardener 7-foot electric chain machines; and twenty-one new mine cars, which make this an up-to-date plant.

The W. P. Rend Colliers Company has installed a new steel recleaning plant in the place of the one destroyed by fire, which has a storage capacity of 400 tons. The revolving screen is 7 feet in diameter and 27 feet long. The screenings are taken to the revolving screen by a bucket elevator, which has a capacity of 1,000 tons in 8 hours. The company has also added to its equipment one 10-ton Morgan-Gardener electric locomotive and one Morgan-Gardener 6-foot undercut electric chain machine.

The Franklin Coal & Coke Company of Royalton has added to its equipment the following:

One 250 H. P. horizontal water tube boiler; 136 4-inch tubes; one Ridgeway dynamo, 200 K. W., connected direct to a 350 H. P. Ridgeway engine 20 by 22; three Goodman electric motors, two 5-ton and one 8-ton; one hundred 3-ton mine cars; three electric chain breast mining machines of the Goodman type, and one short wall electric mining machine of the Sullivan type.

The Southern Illinois Coal & Coke Company has rebuilt its engine room and boiler house in the place of the old one that was destroyed by a cyclone on Sunday, April 21, 1912.

The O'Gara Coal Company has added the following equipment:

Mine No. 1, one 6-ton electric motor.

Mine No. 3, one new boiler, 150 H. P., 6 feet diameter and 72 feet 4-inch flues.

Mine No. 7, one 6-ton electric motor.

Mine No. 8, new shaker screens.

Mine No. 9, one 15-ton electric motor.

Mine No. 11, one 6-ton electric motor and a new boiler, 150 H. P., 6 feet diameter, 18 feet long, with 72 feet 4-inch flues.

Mine No. 12, one 6-ton electric motor.

Mine No. 14, new shaker screens and fan.

Mine No. 15, installed steam car lift at bottom of the shaft, one 6-ton electric motor and one hundred new mine cars.

The Wasson Coal Company has installed three new electric chain breast mining machines of the Morgan-Gardener type.

The Ohio Valley Mining Company has erected at mine No. 8 a new rescreening plant, built by the Wisconsin Bridge & Iron Company. The plant receives all coal under a 3-inch preparation, which is carried to a height of 60 feet over a 36-inch belt at an angle of 22 degrees, at a distance of 150 feet, the coal separating onto two shaker screens, 5 feet by 17 feet. These screens run at 160 revolutions per minute and make 5 grades of coal, viz: No. 1 nut, No. 2 nut, No. 3 nut, No. 4 nut, and No. 5 slack. The bins are located conveniently to load coal on the C. & E. I., or C., B. & Q. Railroad, and hold 160 tons each, making a storage capacity of 1,000 tons. Each bin has four spirals or slate pickers, which pick all impurities from the coal and deposit the same into an 18-inch conveyor belt and is delivered into the refuse, the coal passing into its respective bin. This plant will rescreen 2,000 tons in 8 hours and is built of fireproof material, and is electrically driven by a 75 H. P. motor. This company has added, also, two Jeffery electric mining machines and two John O'Brien water tubular boilers, 150 H. P., 6 feet by 18 feet with 72 feet 4-inch flues.

FATAL ACCIDENTS.

July 17, 1911, N. Lawrence, driver, aged 35 years, married, employed at W. P. Rend Collieries Co.'s No. 1 mine, Rend, Franklin County, was killed. While his mule was turning round, the tail chain caught on a prop pulling it out, letting about two tons of top coal and slate down on him, killing him instantly. He leaves a widow and four children.

July 27, 1911, Robert Hamilton, loader, aged 23 years, married, and George Corbett, loader, aged 24 years, single, were killed in O'Gara No. 9 mine, Harrisburg, Saline County, some time after 3:00 o'clock in the morning. At that time the mine examiner reached their working place and found them preparing to fire their shots. They were not missed until men going into their places the next morning found them lying under the coal. Apparently, they had tamped and fired two shots in the entry and two in the cross cut at the same time. Thinking all the shots had exploded they returned, when the left hand shot in the cross cut, which had hung fire, went off and they were buried beneath the coal. Hamilton leaves a widow.

August 3, 1911, James Mattingley, machine helper, aged 28 years, single, was killed by falling slate in the O'Gara Coal Co.'s No. 9 mine, Harrisburg, Saline County. The machine was just finishing the last cut when a piece of slate fell.

August 5, 1911, William Macher, a driver, aged 30 years, married, employed in the W. P. Rend Collieries Co.'s mine, Rend, Franklin County, was killed by being crushed between a pit car and the coal rib. Deceased was coming out of the second northwest to the first northeast and apparently got off the car on the wrong side, as on the opposite side of the car there was from 6 feet to 9 feet of space. No one saw him when the accident occurred and he was dead when found. He leaves a widow.

August 9, 1911, Evert Baker, loader, aged 26 years, married, employed in the O'Gara mine No. 4, Harrisburg, Saline County, was killed by falling

coal at the face of his working place. Deceased was loading his car near a large block of loose coal and concluded to push it away and roll the block over. He got between the car and the coal when the car started forward and the block of coal fell and crushed him. He leaves a widow and one child.

August 10, 1911, Steve Begosh, track layer, aged 38 years, single, employed at the Possum Ridge mine of the Southern Illinois Coal Company, Franklin County went into room No. 5, first south entry to lay track. There was a conspicuous mark at the mouth of the room which said, "Keep out, bad top," but he went in and slate fell on him breaking his leg and causing other injuries from which he died five hours later.

September 1, 1911, Alex. Murphy, trapper, aged 17 years, single, lost his life in the Hart-Williams mine, Benton, Franklin County, by falling coal.

September 6, 1911, Martin Long, trip rider, aged 19 years, single, employed at O'Gara Coal Co.'s mine No. 10, Eldorado, Saline County, was killed by falling off a moving motor on which he was riding. His left leg was run over and had to be amputated. This was on September 5, and he died the next morning.

October 2, 1911, Paul Wiltmuth, track man, aged 21 years, single, employed at the Wasson Coal Co.'s mine, Wasson, Saline County, was killed by a trip of loaded cars which were started down grade from the force of a gas explosion. Deceased was ordered to help some track layers who were working in a cut-off between the first and second northwest entries. Instead of stopping at the cutoff he continued on down the entry and had gone but a short distance when his open light ignited a body of gas. He either ran back, or was blown back, to a point where three cars, which had been started down grade by the force of the explosion, ran over and killed him.

October 3, 1911, Joe Bazulis, miner, aged 39 years, married, working at O'Gara mine No. 9, Harrisburg, Saline County, was on his way out to the bottom at quitting time when he was run over by pit cars and killed. The accident occurred September 21. He leaves a widow and six children.

October 23, 1911, Charles Premas, miner, aged 42 years, married, working at O'Gara Coal Company's mine No. 1, was killed by falling coal. He leaves a widow and six children.

October 23, 1911, Daniel Austin, miner, aged 18 years, single; Frank Steckton, miner, aged 28 years, single; Alfred Bowen, miner, aged 30 years, married; Samuel Barnaby, miner, aged 36 years, married; Joseph Austin, miner, aged 56 years, married; Wm. K. Stringer, miner, aged 22 years, married; Oscar Chick Parks, machine runner, aged 31 years, married; George Edwards, miner, aged 28 years, married, lost their lives while working at O'Gara Coal Company's mine No. 9, Harrisburg, Saline County. Mine No. 9 and mine No. 4 are connected at the face of the main north entry of mine No. 9. No. 4 mine has been stopped for repairs in the main shaft, the shaft being completely blocked for some time, and had been ventilated with a current from No. 3 mine. It seems as though the section of No. 4 mine nearest No. 9 mine had not been sufficiently ventilated. These men were working near the connection of No. 9 and No. 4 when an explosion occurred, blowing the door down between the two mines, and allowing afterdamp to rush onto them causing their death by suffocation. Alfred Bowen leaves a widow and one child; Samuel Barnaby leaves a widow and three children; Joseph Austin leaves a widow and one child; William K. Stringer leaves a widow and two children; Oscar C. Parks leaves a widow and one child; George Edwards leaves a widow and one child; Daniel Austin and Frank Steckton were both single. Daniel Austin was the son of Joseph Austin and this accident took both father and son from the family.

October 24, 1911, Edward Edwards, miner, aged 38 years, married, and Robert A. Dunn, miner, aged 32 years, married, working at the St. Louis Coal & Coke Co.'s mine, Galatia, Saline County, were killed at the face of their room by a fall of slate. They were pulling down some top coal and, while working, the weight swung the props and the fall caught them before they could get in the clear. Each man leaves a widow and two children.

October 26, 1911, George Myers, driver, aged 23 years, single, employed at O'Gara Coal Company's mine No. 11, Eldorado, Saline County, was walking along the side of a car when a large piece of rock fell and crushed him down, causing his death.

October 26, 1911, Joseph Chance, laborer, aged 41 years, married, working at the No. 18 mine of the Dering Coal Co., West Frankfort, Franklin County, was switching empty cars at steam lift, when an empty car was about half way on, the steam lever was opened and the lift raised up, raising the car and leaving it standing on end. He seemed to have fallen in front of the car, when it fell back on him injuring him internally and causing his death the same day. He leaves a widow and six children.

October 27, 1911, Fred Phillips, driver, aged 21 years, single, working in the Wasson Coal Co.'s mine, Harrisburg, Saline County, was killed by falling on machine wire. The deceased was coming in on the parting and it seems that he intended to couple the car to the rest of the trip, when he either stumbled or fell onto a machine wire, striking on his chin. He was between two cars, an elbow on each car, with his chin on the live wire, when he was found, dead, by a miner.

November 8, 1911, Ben Sampson, machine runner, aged 35 years, married, employed at W. P. Rend Collieries Company's mine, Rend, Franklin County, was killed. Deceased was cutting a room, which was seven runs wide, and while cutting the last run, the machine became charged, and he fell on a skid, which was under the machine. Before his partner could get the cable disconnected he was dead. He leaves a widow and two children.

November 9, 1911, Joseph Karpinsky, miner, aged 35 years, married, employed at O'Gara Coal Co.'s mine No. 9, Dorrisville, Saline County, was loading a car at the face of his room when the draw slate gave away, falling on his head and shoulders, crushing him so that he died from the effects of the injury November 20. He leaves a widow and three children.

December 9, 1911, Jake Skringer, trip rider, aged 35 years, married, employed at the Bell and Zoller Mining Company's mine, Zeigler, Franklin County, was killed while riding on a motor with a motor man. Deceased was coming off an entry with a 10 car trip. Just before coming to the curve the motor jumped the track and swung about half way around, catching and crushing him, causing his death instantly. He leaves a widow and one child.

January 4, 1912, Mike Christmick, trapper, aged 26 years, single, was killed at No. 1 mine of the Bell and Zoller Mining Company, Zeigler, Franklin County. Deceased was trapping at mine door, and opened the door for the motor to go through. The trip had broken and after five cars and motor had gone through, deceased went to shut the door when the balance of the trip came running into the closed door and caught him, crushing both his legs. He was taken to a hospital where he died three hours later.

January 8, 1912, Joe Boddesh, miner, aged 35 years, married, was killed in the Zeigler District Colliery Company's mine No. 1, Christopher, Franklin County. Deceased was pulling down top coal when a large mass fell breaking his back and causing his death one hour later. He leaves a widow and five children.

January 17, 1912, John Bennett, miner, aged 40 years, married, employed at mine No. 9, of the O'Gara Coal Company, Harrisburg, Saline County, was struck by a piece of slate 2½ feet by 6 feet by 4 inches and injured so that he died in fifteen minutes. He leaves a widow and three children.

January 25, 1912, Joseph Harvey, timberman, aged 30 years, married, employed at mine No. 14 of O'Gara Coal Company, Ledford, Saline County, was killed by a fall of rock. Deceased was sent to take down some loose rock and while pulling it down a large piece fell on the lower part of his body crushing him so that he died a short time after. He leaves a widow.

February 7, 1912, Charles Mangel, machine helper, aged 35 years, single, lost his life in mine No. 9 of the O'Gara Coal Company, Harrisburg, Saline County, by falling coal.

February 28, 1912, John Jenkins, miner, aged 43 years, married, was killed by pit cars in the Saline County Coal Co.'s No. 2 mine, Ledford, Saline County. He leaves a widow and two children.

March 9, 1912, Robert Lanzenni, timberman, aged 33 years, married, working at Sesser Coal Co.'s mine, Sesser, Franklin County, was cleaning up a fall, which had occurred the day before. While he was working a large piece of rock broke loose and fell on him, killing him instantly. He leaves a widow and two children.

May 9, 1912, Henry Stevens, laborer, aged 33 years, married, was killed while coupling railroad cars at the Harrisburg Southern Coal Co.'s mine, Grayson, Saline County. An empty car stood about 50 feet below the tippie, when a loaded car was turned loose, which struck the empty one but failed to couple. The deceased stepped between the two cars to adjust the coupling lever, and, just as he stepped back, the cars came together and caught him between the couplings, crushing him so that he died about one hour and twenty minutes later. He leaves a widow.

May 21, 1912, Conrad Ackerman, miner, aged 45 years, married, working at Harrisburg-Southern Coal Co.'s mine, Grayson, Saline County, was killed by falling rock. The deceased was loading a car of coal when a piece of rock 10 feet long, 4 feet wide and 16 inches thick fell on him, crushing him and causing his death in about 8 hours. He leaves a widow and two children.

May 23, 1912, George Goben, machine man, aged 32 years, married, employed at mine No. 3 of the O'Gara Coal Company, Harrisburg, Saline County, was killed by falling coal. He leaves a widow and two children.

June 8, 1912, Joseph Romanski, miner, aged 35 years, married, employed at the Mitchell mine of the Franklin Coal and Coke Company, Royalton, Franklin County, was killed by a fall of rock. The deceased had been loading a car with coal from beneath a large piece of rock, which had fallen the night before on his coal pile. The rock was 20 feet by 10 feet and 14 inches thick. When he had gotten a distance under it, a large piece broke off and fell on him and killed him instantly. He leaves a widow and one child.

June 10, 1912, Giocone Candora, miner, aged 24 years, single, was killed while working at the United Coal Mining Company's mine, Christopher, Franklin County. The deceased had loaded a car and pushed it out. He then went back into his room and a large piece of slate fell on him, killing him instantly.

Respectfully submitted,

FRANK ROSEBOTTOM.

State Inspector of Mines, Eleventh District, Benton, Ill.

Fatal casualties—Eleventh District—June 30, 1912.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Single.	Widow.	Children.	Dependents.	Cause of death.
1911.										
July	17 N. Lawrence.....	35	Driver.....	Cardiff.....	1	1	4	5		Falling slate.....
	27 Robt. Hamilton.....	23	Loader.....	Harrisburg.....	1	1	1	1		Falling coal.....
	27 George Corbett.....	24	do.....	do.....	1	1	1	1		do.....
Aug.	3 James Mattingley.....	28	Machine helper.	Dorrisville.....	1	1	1	1		Falling slate.....
	5 William Macher.....	30	Driver.....	Marissa.....	1	1	1	1		Pit car.....
	9 Everet Baker.....	26	Loader.....	Harrisburg.....	1	1	1	2		Falling coal.....
	10 Steve Begosh.....	38	Trackman.....	Freeman.....	1	1	1	1		Falling slate.....
Sept.	1 Alex Murphy.....	17	Trapper.....	Benton.....	1	1	1	1		Falling coal.....
	6 Martin Long.....	19	Trip rider.....	Eldorado.....	1	1	1	1		Pit car.....
Oct.	2 Paul Wiltmuth.....	21	Trackman.....	Harrisburg.....	1	1	1	1		do.....
	3 Joe Bazulis.....	39	Miner.....	Dorrisville.....	1	1	6	7		do.....
	23 Chas. Premas.....	42	do.....	Muddy.....	1	1	6	7		Falling coal.....
	23 Oscar Parks.....	31	Machine runner	Harrisburg.....	1	1	1	1		Asphyxiated.....
	23 Joe Austin.....	56	Loader.....	do.....	1	1	1	1		do.....
	23 Wm. K. Stringer.....	22	do.....	do.....	1	1	2	3		do.....
	23 Frank Steckston.....	28	do.....	do.....	1	1	1	1		do.....
	23 Frank Barnaby.....	36	do.....	do.....	1	1	3	4		do.....
	23 Geo. Edwards.....	Miner.....	do.....	do.....	1	1	1	2		do.....
	23 Dan Austin.....	18	do.....	do.....	1	1	1	1		do.....
	23 Alfred Bowen.....	30	do.....	do.....	1	1	1	2		do.....
	24 Edward Edwards.....	38	do.....	Eldorado.....	1	1	2	3		Falling slate.....
	24 Robt. A. Dunn.....	32	do.....	Galatia.....	1	1	2	3		do.....
	24 Joseph Chance.....	41	Laborer.....	W. Frankfort...	1	1	6	7		Pit car.....
	26 George Meyers.....	23	Driver.....	Eldorado.....	1	1	1	1		Falling rock.....
	27 Fred Philips.....	21	do.....	Athens, Ohio.....	1	1	1	1		Electrocuted.....
Nov.	8 Ben Simpson.....	35	Machine runner	Virdeen.....	1	1	2	3		do.....
	20 Joe Karpinsky.....	35	Miner.....	Dorrisville.....	1	1	3	4		Falling slate.....
Dec.	9 Jake Shringer.....	35	Trip rider.....	Zeigler.....	1	1	1	2		Motor.....
1912.										
Jan.	4 Mike Christnuck.....	26	Trapper.....	do.....	1	1	1	1		Pit car.....
	8 Joe Boddesk.....	35	Miner.....	Christopher.....	1	1	5	6		Falling coal.....
	17 John Bennett.....	40	do.....	Harrisburg.....	1	1	3	4		Falling slate.....
	25 Joseph Harvey.....	30	Timberman.....	Ledford.....	1	1	1	1		do.....
Feb.	5 Chas. Mangel.....	35	Machine helper.	Harrisburg.....	1	1	1	1		Falling coal.....
	28 John Jenkins.....	43	Miner.....	Carrier Mills.....	1	1	2	3		Pit car.....
Mar.	9 Robt. Lanzenni.....	33	Timberman.....	Sesser.....	1	1	2	3		Falling rock.....
May	21 Henry Stevens.....	33	Laborer.....	Eldorado.....	1	1	1	1		Railroad car.....
	21 Conrad Ackerman.....	45	Miner.....	Duquoin.....	1	1	2	3		Falling rock.....
	23 George Goben.....	32	Machine runner	Harrisburg.....	1	1	2	3		Falling coal.....
June	8 Joseph Romanski.....	35	Miner.....	Royalton.....	1	1	1	2		Falling slate.....
	10 Giocone Candora.....	24	do.....	Christopher.....	1	1	1	1		do.....
	Total.....				27	13	27	58	84	

Recapitulation of fatal accidents—Eleventh District—1912.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Athens, Ohio.....	1	Drivers.....	4	Asphyxiated.....	8	Bell & Zollar.....	2
Benton.....	1	Laborers.....	2	Electrocuted.....	2	Dering.....	1
Cardiff.....	1	Loaders.....	7	Falling coal.....	8	Franklin C. & C.....	1
Carrier Mills.....	1	Machine help's.....	2	Falling rock.....	3	Harrisburg.....	2
Christopher.....	2	Machinerunn'rs.....	3	Falling slate.....	10	Hart-Williams.....	1
Dorrisville.....	3	Miners.....	14	Motor.....	1	O'Gara.....	21
Duquoin.....	1	Timbermen.....	2	Pit cars.....	7	Rend, W. P.....	3
Eldorado.....	4	Trackmen.....	2	Railroad cars.....	1	St. Louis.....	2
Freeman.....	1	Trappers.....	2			Saline Co.....	1
Galatia.....	1	Tripriders.....	2			Sesser.....	1
Harrisburg.....	15					Southern Illinois.....	1
Ledford.....	1					United.....	1
Marissa.....	1					Wasson.....	2
Muddy.....	1					Zeigler Dist.....	1
Royalton.....	1						
Sesser.....	1						
Virden.....	1						
West Frankfort.....	1						
Zeigler.....	2						
Total.....	40		40		40		40

Non-fatal casualties—Eleventh District—June 30, 1912.

Date.	Name.	Residence.	Age.	Married.	Single.	Children.	Dependents.	Character of injury and cause of accident.	Time lost—days.
1911.									
July 17.	Al Blackwell.....	28 Ledford.....	1	1				Finger injured, pit car.....	38
20	Wm. T. Meyers.....	25 Christopher.....	1	1				Foot cut off, pit car.....	200
21	Albert Somanak.....	45 Wasson.....	1		6	7		Leg broken, falling coal.....	175
21	Seth Ballow.....	34 Ledford.....	1		2	3		Leg broken, falling slate.....	65
24	Alvin Cross.....	40 Sesser.....	1		4	5		Back injured, falling slate.....	*
Aug. 10.	Trov Cross.....	26 do.....	1		1	3		Leg broken, falling coupling.....	35
23	William Shipper.....	25 Wasson.....	1					Leg injured, pit car.....	53
26	John Spanolio.....	33 Rend.....	1					Ankle broken, machine.....	100
28	Al Blackwell.....	28 Ledford.....	1					Finger broken, pit car.....	38
Sept. 7.	Adam Mankins.....	35 Harrisburg.....	1		2	3		Back injured, falling slate.....	42
14	Frank Adams.....	44 Ledford.....	1		2	3		Ankle injured, falling rock.....	33
21	James Golia.....	25 W. Frankfort.....	1					Shoulder injured, falling rock.....	40
Oct. 2.	Claude Hanson.....	23 Wasson.....	1			1		Body burned, gas explosion.....	29
14	Mike Clements.....	45 Christopher.....	1		3	4		Foot injured, falling coal.....	40
24	Gus Morris.....	45 Benton.....	1		2	3		Body burned, powder explosion.....	45
24	Chas. Herbet.....	48 Sesser.....	1			1		Body burned, gas explosion.....	90
27	Walter Wilson.....	16 Harrisburg.....	1					Leg broken, pit car.....	126
30	Barney Gasway.....	32 Christopher.....	1		3	4		Back injured, fell off boiler wall.....	90
Nov. 4.	Frank Kantros.....	34 Ledford.....	1		4	5		Body injured, falling slate.....	40
	Joe Goglewski.....	22 Wasson.....	1					Back injured, falling coal.....	120
	Geo. Rayhart.....	32 Harrisburg.....	1					Foot injured, falling coal.....	69
	Loyd Levault.....	21 Sesser.....	1			1		Body injured, falling slate.....	39
10	Jas. H. Pittman.....	35 Ledford.....	1		3	4		Leg broken, machine.....	115
11	J. H. Mooney.....	30 Rend.....	1					Hand broken, pit car.....	40
13	Frank Siebert.....	20 Benton.....	1					Body injured, pit car.....	35
15	Mike Buthenie.....	60 Zeigler.....	1					Body injured, fell off trestle.....	51
15	George Lorenze.....	25 W. Frankfort.....	1		2	3		Shoulder injured, pit car.....	30
15	Loyd LeVant.....	22 Sesser.....	1					Leg injured, pit car.....	*
18	Joe Malvicini.....	35 Rend.....	1					Ankle injured, machine.....	90
21	Steve Keolicka.....	32 Christopher.....	1		2	3		Back broken, falling coal.....	*
27	Chas. Cosmos.....	32 W. Frankfort.....	1					Body injured, falling rock.....	*
28	John Choketty.....	40 Rend.....	1		4	5		Body burned, gas explosion.....	60
28	Chas. Golenski.....	28 Wasson.....	1					Body injured, falling slate.....	*
29	Robt. Gully.....	27 Valier.....	1		2	3		Wrist broken, railroad car.....	60

Non-fatal casualties—Eleventh District—Continued.

Date.	Name.	Residence.	Age.	Married.	Single.	Children.	Dependents.	Character of injury and cause of accident.	Time lost—days.
1911.									
Dec.	6 E. Calsoni	28 Royalton		1				Legs injured, pit car	31
	7 Geo. Werweczka	22 Gaskins City		1				Foot injured, motor	45
	8 Oscar Pauley	44 Christopher	1		3		4	Foot injured, falling coal	35
	13 Sherman Hutchcraft	40 Hanaford	1				1	Leg injured, cage	90
	13 Walter Belski	30 Wasson	1					Finger broken, machine	50
	14 Joe Stewart	31 Ledford	1			1		do	35
	22 John Semento	30 Benton	1					Foot injured, falling coal	*
	22 William Collier	48 Dorrisville	1		5	6		do	60
	24 Clarence Williams	21 W. Frankfort	1					Arm injured, fan	*
	27 Julia A. Ban	29 do	1		2	3		Leg broken, fell into sump	*
	27 Edgar Poole	33 do	1		5	6		Body injured, cage	145
	29 S. J. Kelley	34 Ledford	1		4	5		Leg broken, falling coal	67
1912.									
Jan.	2 Wm. White	23 Christopher	1		2	3		Body burned, gas explosion	90
	2 Ben Gamber	23 do	1					do	90
	2 Lotsie Frankovich	21 do	1		1	2		do	90
	2 Sam White	54 do	1			1		do	90
	5 Wm. Bradley	21 Ledford	1			1		Eye destroyed, squeezed by mule	35
	6 Jack Greenwood	21 Christopher	1			1		Hand broken, machine	45
	9 John O. Hopkins	30 do	1		3	4		Hand cut off, saw	*
	10 Wm. Garside	34 Harrisburg	1		1	2		Ankle broken, falling coal	40
	15 John Dove	42 do	1					Eye injured, flying coal	*
	26 Logan Level	45 do	1		4	5		Head injured, falling slate	36
	27 Columbus Brown	23 do	1					Finger cut off, pit car	*
	30 John W. Lindsay	27 Buckner	1		1	2		Leg broken, machine	150
Feb.	1 John Belts	18 Eldorado	1					Leg broken, pit car	*
	2 Chas. Morgan	42 do	1		4	5		Eye destroyed, flying steel	40
	2 Wm. Philipps	27 Gaskins City	1		1	2		Body burned, gas explosion	56
	3 Toni Kosta	30 Christopher	1					Finger injured, coal fell down shaft	33
	5 Frank Shew	22 Benton	1					Leg broken, falling coal	42
	6 Robt. Roncalione	29 Christopher	1					Toe injured, falling timber	36
	6 Fred Neibel	47 Gaskins City	1		9	10		Leg broken, flying coal	60
	9 John Cresse	41 Muddy	1		3	4		Leg broken, machine	36
	10 Jacob Glinski	48 Harrisburg	1		4	5		Body injured, pit car	45
	12 Chas. Schroggins	33 Carrier Mills	1		2	4		Arm broken, pit car	60
	13 Chas. Martin	35 Ledford	1		2	3		Rib broken, falling slate	116
	14 Cliff Easter	Harrisburg	1					Arm broken, pit car	30
	16 R. E. Edwards	26 do	1			1		Foot broken, pit car	60
	17 A. J. Johnson	56 Muddy	1			1		Leg broken, machine	60
	17 Louie Roshas	37 Ledford	1		1	2		Rib broken, falling slate	44
	19 O. N. Andrews	39 Harrisburg	1		1	1		Body injured, falling slate	30
	19 F. S. Kenipp	38 do	1		2	3		Hand injured, falling coal	30
	20 Art. Issler	39 Royalton	1		6	7		Head injured, falling coal	*
	22 Taylor Butler	36 Harrisburg	1		4	5		Leg injured, struck by hook	30
	24 Pat Shea	20 Dorrisville	1			2		Arm broken, falling coal	75
	28 L. Krayetes	32 Ledford	1		1	2		Leg broken, falling slate	30
	29 Theo. Gibbs	28 Muddy	1					Body injured, falling slate	30
Mar.	1 Sam Kreddo	33 W. Frankfort	1					Foot cut off, pit car	*
	3 Joe Schirer	30 Zeigler	1					Foot injured, machine	*
	3 Adolf Heberer	24 Royalton	1					Leg broken, pit car	*
	5 Frank Adams	44 Ledford	1		2	2		Ribs broken, pit car	42
	5 J. D. Thompson	45 Carrier Mills	1		5	6		Leg broken, falling slate	90
	7 John Pernordonia	43 Christopher	1					Foot injured, rail	30
	11 Mike Dinik	25 Zeigler	1					Leg injured, pit car	49
	12 Robt. T. Hunter	25 Wasson	1		1	2		Body injured, premature shot	42
	13 Frank Perkin	40 Harrisburg	1		6	7		Body injured, falling coal	40
	13 Neal Wood	20 Eldorado	1					Leg broken, pit car	32
	15 Jas Lewis	28 Carrier Mills	1		1	2		Leg injured, machine	35
	16 Mark Jordan	17 Christopher	1					Body injured, pit car	40
	18 Tony Tetrotis	23 Harrisburg	1					Leg broken, falling slate	56
	18 Thos. Bunder	32 Carrier Mills	1		2	3		Arm injured, cressbar	35
	19 Allie Harris	47 Eldorado	1					Body injured, falling slate	30
	20 S. D. Haye	36 Harrisburg	1		3	4		Body burned, gas explosion	30
	22 Ed. Ritter	30 Galatia	1			1		Body injured, cage	45
	22 Gene Ritter	do	1					do	30
	22 Frank Ritter	do	1			1		do	30
	22 Chas. Chaplin	22 Benton	1			3		Leg broken, motor	42

Non-fatal casualties—Eleventh District—Concluded.

Date.	Name.	Residence.	Age.	Married.	Single.	Children.	Dependents.	Character of injury and cause of accident.	Time lost—days.
Mar. 23	Ray Deal.....	22 Harrisburg.....	1	1			2	Head injured, kicked by mule..	30
26	Omer Griffith.....	22 Zeigler.....	1	1				Collar bone broken, pit car.....	42
27	Waber Strezney.....	40 do.....	1		3		4	Leg broken, falling coal.....	*
27	Joe Bortical.....	22 Ledford.....	1	1				Body injured, falling slate.....	52
27	Ed Berry.....	40 Hanaford.....	1		4		5	Leg injured, chain.....	180
30	Shannon Eubanks.....	32 W. Frankfort....	1		2		3	Body injured, ladder.....	*
May 11	John Black.....	32 Eldorado.....	1		4		5	Finger cut off, falling rock.....	42
11	Roy McClusky.....	18 Harrisburg.....	1	1				Finger cut off, motor.....	45
15	Elmer Williams.....	23 Eldorado.....	1	1				Leg broken, fell off cage.....	42
15	Lewis Coget.....	47 Harrisburg.....	1		3			Body injured, fell off cage.....	47
16	W. J. Catchcart.....	44 do.....	1		8		9	Body burned, gas explosion.....	54
16	Frank Douglas.....	22 W. Frankfort....	1		1		2	Body injured, kicked by mule.....	*
21	John Kobilsky.....	41 Sesser.....	1		6		7	Leg broken, falling coal.....	*
24	J. W. Shipe.....	64 Eldorado.....	1	1			2	Ribs broken, falling slate.....	30
24	Andy Slobodongreek.....	39 Muddy.....	1	1	1		2	Foot injured, falling coal.....	60
29	Gaifan Benedetti.....	50 Rend.....	1		4		5	Back injured, falling coal.....	*
June 3	James Welch, Jr.....	22 Eldorado.....	1	1				Body burned, gas explosion.....	*
3	Chas. Henninger.....	33 Christopher.....	1	1				Collar bone broken, pit car.....	*
6	Tony Kondrastis.....	33 Harrisburg.....	1	1				Body burned, gas explosion.....	40
7	W. A. Durham.....	51 Benton.....	1	1			1	Foot injured, pit car.....	*
10	Joe M. Pontowich.....	28 Sesser.....	1	1				Body injured kicked by mule.....	*
12	Thos. Hillman.....	24 Christopher.....	1	1				Ribs broken, pit car.....	*
25	Steve Gormurch.....	22 Sesser.....	1	1				Body injured, pit car.....	*
	Total.....		74	49	173	246			

* Not returned to work, July 1, 1912.

Total number injured.....	123
Number not returned to work.....	27

Number returned to work.....	96
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Total days lost by men returned to work.....	5,517
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Average days lost.....	57.47
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Recapitulation of non-fatal casualties—Eleventh District—1912.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Benton.....	6	Cager.....	1	Cage.....	5	Bell & Zollar.....	5
Buckner.....	1	Carpenters.....	2	Chain.....	1	Benton.....	3
Carrier Mills.....	4	Coupler.....	1	Coal fell down shaft.....	1	Carroll & Franklin Cos.....	2
Christopher.....	17	Drivers.....	17	Cross bar.....	1	Dering.....	9
Dorrisville.....	2	Firemen.....	3	Falling coal.....	20	Eldorado.....	3
Eldorado.....	8	Laborers.....	17	Falling coupling.....	1	Franklin C. & C.....	3
Galatia.....	3	Loader.....	1	Falling rock.....	4	Hart-Williams.....	3
Gaskin City.....	3	Machinist.....	1	Falling slate.....	17	O'Gara.....	33
Hanaford.....	2	Machine helper.....	2	Falling timber.....	1	Ohio Valley.....	1
Harrisburg.....	21	Machine runner.....	14	Fan.....	1	Rend, W. P.....	5
Ledford.....	14	Mine examiner.....	2	Fell into sump.....	1	St. Louis.....	3
Muddy.....	4	Miners.....	44	Fell off boiler wall.....	1	Saline Co.....	19
Rend.....	5	Motorman.....	1	Fell off cage.....	2	Sesser.....	8
Royalton.....	3	Pumpman.....	1	Fell off trestle.....	1	United.....	7
Sesser.....	8	Shot firer.....	1	Flying coal.....	1	Wasson.....	7
Valier.....	1	Spraggers.....	4	Flying steel.....	1	Zeigler Dist.....	12
Wasson.....	7	Trappers.....	2	Gas explosion.....	12		
W. Frankfort.....	9	Timberman.....	1	Ladder.....	1		
Zeigler.....	5	Tripriders.....	8	Machine.....	11		
				Motor.....	3		
				Mule.....	1		
				Mule, kicked by.....	3		
				Pit cars.....	27		
				Powder explosion.....	1		
				Premature blast.....	1		
				Rail.....	1		
				Railroad car.....	1		
				Saw.....	1		
				Struck by hook.....	1		
Total.....	123		123		123		123

Recapitulation of non-fatal casualties, nature of injuries, conjugal relations and time lost—Eleventh District—1912.

Nature of injuries.	Number.	Married.	Single.	Children.	Dependents.	Time lost—days.		Percent- age of injuries.
						Total.	Average.	
Ankles broken.....	2	1	1	1	2	140	70.00	1.63
Ankles injured.....	2	1	1	2	3	123	61.50	1.63
Arms broken.....	3	1	2	2	6	165	55.00	2.44
Arms injured.....	2	1	1	2	3	35	35.00	1.63
Back broken.....	1	1	—	2	3	—	—	.81
Backs injured.....	5	4	1	13	17	252	84.00	4.06
Bodies burned.....	13	10	3	21	31	764	63.67	10.56
Bodies injured.....	23	13	10	29	37	773	45.47	18.70
Collar bone broken.....	2	1	1	—	—	42	42.00	1.63
Eyes destroyed.....	2	2	—	4	6	75	37.50	1.63
Eye injured.....	1	—	1	—	—	—	—	.81
Feet broken.....	1	1	—	—	1	60	60.00	.81
Feet cut off.....	2	1	1	—	1	200	200.00	1.63
Feet injured.....	10	4	6	12	17	339	48.43	8.13
Fingers broken.....	3	1	2	—	1	123	41.00	2.44
Fingers cut off.....	3	1	2	4	5	87	43.50	2.44
Fingers injured.....	2	1	1	—	—	71	35.50	1.63
Hands broken.....	2	1	1	—	1	85	42.50	1.63
Hands cut off.....	1	1	—	3	4	—	—	.81
Hands injured.....	1	1	—	2	3	30	30.00	.81
Heads injured.....	3	3	—	10	14	66	33.00	2.44
Legs broken.....	22	15	7	46	65	1,221	71.82	17.89
Legs injured.....	8	4	4	9	13	468	66.86	6.50
Ribs broken.....	5	3	2	7	7	232	58.00	4.06
Shoulders injured.....	2	1	1	2	3	70	35.00	1.63
Toes injured.....	1	—	1	—	—	36	36.00	.81
Wrist broken.....	1	1	—	2	3	60	60.00	.81
Total.....	123	74	49	173	246	5,517	57.47	100.00

Franklin County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	United C. M. Co., No. 1.....	Christopher....	8, 178	181, 159	334, 826	524, 163
2	Zeigler Dist. Col. Co., N. Mine.....	do.....	13, 163	125, 349	336, 874	475, 386
3	Sesser Coal Co.....	Sesser.....	15, 674	82, 424	326, 351	424, 449
4	Bell-Zoller M. Co., No. 1.....	Zeigler.....	38, 876	49, 942	334, 869	423, 687
5	Benton Coal Co., No. 1.....	Benton.....	25, 590	94, 172	262, 703	382, 465
6	Hart-Williams C. Co., No. 1.....	do.....	19, 376	70, 576	242, 398	332, 350
7	W. P. Rend Col. Co., No. 1.....	Rend.....	230, 590	10, 354	26, 497	267, 441
8	Dering Coal Co., No. 11.....	W. Frankfort...	31, 361	51, 635	138, 910	221, 906
9	Franklin C. & C. Co., Mitchell.....	Royalton.....	32, 105	52, 906	127, 101	212, 112
10	Southern Ill. C. & C. Co., P. R.....	Herrin.....	89, 619	35, 731	81, 568	206, 918
11	Ohio Valley M. Co., No. 8.....	W. Frankfort...	29, 022	50, 172	118, 579	197, 773
12	Dering Coal Co., No. 18.....	do.....	59, 511	23, 200	35, 926	118, 637
13	Carroll & Franklin Co. C. Co.....	Hanaford.....	3, 000	24, 885	71, 655	99, 540
14	United Coal Mining Co., No. 2.....	Christopher....	3, 286	13, 677	53, 022	69, 985
15	Big Muddy-Carterville M. Co., No. 1.....	Royalton.....	26, 942	5, 280	26, 380	58, 602
16	West Frankfort Coal Co., W. Mine.....	W. Frankfort...	11, 401	.....	.....	11, 401
Total—16 mines.....			637, 694	871, 462	2, 517, 659	4, 026, 815

Mines reported for 1911, 15.

New mines, 1.

Mines in 1912, 16.

Eleventh District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Accidents.		Blasting coal—from solid or under cuto both.	Number of animals under-ground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
509,737	14,426	*85,825	248	45	447	492	58,948	465,215	1	4	U. C.	16		1
461,963	13,423	4,138	236	45	352	397	101,389	373,997	1	12	Both.	19		2
		1,531												
421,449	3,000	*41,300	226	-----	343	343	24,047	400,402	1	8	U. C.	19		3
402,752	20,935	*74,125	208	-----	440	440	-----	423,687	2	5	do.	2		4
360,503	21,962	*1,850	188	75	325	400	95,616	286,849	-----	3	Both.	20		5
		4,350												
322,209	10,141	3,118	162	278	185	463	43,023	289,327	1	3	U. C.	18		6
255,419	12,022	3,351	221	-----	295	295	-----	267,441	3	5	do.	5		7
212,509	9,397	*44,600	169	-----	331	331	12,490	209,416	-----	5	do.	20		8
205,777	6,335	3,535	214	38	270	308	53,028	159,084	1	3	Both.	12		9
192,419	14,499	2,635	223	-----	214	214	-----	206,918	1	-----	U. C.	14		10
184,594	13,179	*33,225	167	-----	203	203	-----	197,773	-----	1	do.	-----		11
111,873	6,764	*28,400	164	-----	204	204	13,696	104,941	1	4	do.	17		12
92,632	6,908	1,023	173	-----	131	131	-----	99,540	-----	2	do.	6		13
68,086	1,899	*17,600	234	-----	94	94	3,497	66,488	-----	3	do.	2		14
56,138	2,464	2,658	174	65	70	135	58,602	-----	-----	-----	Solid.	9		15
4,169	7,232	700	270	8	14	22	11,401	-----	-----	-----	do.	1		16
3,862,229	164,586	*326,925 27,039	205	554	3,918	4,472	475,737	3,551,078	12	58	-----	5		185

* Pounds of permissible explosives.

Gallatin County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	Gallatin C. & C. Co., No. 1	Equality	8,974	6,610	12,855	28,439
2	Hickory Hill C. Co., No. 1	do		11,535	7,690	19,225
3	Crescent Coal Co., E. Side.	do	1,200	9,508	4,755	15,463
Total			10,174	27,653	25,300	63,127
LOCAL MINES.						
1	J. O. Baldwin	Equality		3,200	450	3,650
2	Wm. Strong	Shawneetown	1,000		800	1,800
3	J. E. Dempsey	Equality		1,660		1,660
4	Sisk & McLean	do		945	300	1,245
5	Reid & Brice	Saline Mines	600	300	100	1,000
6	R. J. Mitchell	Shawneetown	580		8	588
7	E. A. Anderson	Ridgeway	500		50	550
Total			2,680	6,105	1,708	10,493
Total—10 mines			12,854	33,758	27,008	73,620

Mines reported for 1911, 11

New mines, 1.

Abandoned mines, 2.

Mines in 1912, 10.

Eleventh District—1912.

Disposition of output.		Kegs of p wder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Ac-cidents.		Blasting coal—from solid or undercut or both.	Number of animals under-ground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
23,064	5,375	1,228	174	40	10	50	28,439	.....	.....	.....	Solid.....	.....	6	1
19,225	.....	1,101	155	40	13	53	19,225	.....	.....	.....	do.....	.....	8	2
14,043	1,420	275	136	.....	32	32	.....	15,463	.....	.....	U. C.....	.....	3	3
56,332	6,795	2,604	155	80	55	135	47,664	15,463	.....	.....	.....	.....	17	
.....	3,650	122	190	4	1	5	3,650	.....	.....	.....	.....	.....	.....	1
.....	1,800	100	150	2	1	3	1,800	.....	.....	.....	.....	.....	.....	2
.....	1,660	100	150	5	2	7	1,660	.....	.....	.....	.....	.....	.....	3
.....	1,245	50	135	3	.....	3	1,245	.....	.....	.....	.....	.....	.....	4
.....	1,000	22	180	4	.....	4	1,000	.....	.....	.....	.....	.....	.....	5
.....	588	50	175	2	1	3	588	.....	.....	.....	.....	.....	.....	6
.....	550	50	180	2	1	3	550	.....	.....	.....	.....	.....	.....	7
.....	10,493	494	166	22	6	28	10,493	.....	.....	.....	.....	.....	.....
56,332	17,288	3,098	163	102	61	163	58,157	15,463	.....	.....	.....	.....	17	

Saline County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	O'Gara Coal Co., No. 9.....	Harrisburg.....	509	347,954	175,120	523,583
2	Saline Co. Coal Co., No. 2.....	Ledford.....	76,762	210,732	210,729	498,223
3	O'Gara Coal Co., No. 3.....	Harrisburg.....	59,571	232,195	91,919	383,685
4	O'Gara Coal Co., No. 1.....	do.....	23,462	172,210	90,646	286,318
5	O'Gara Coal Co., No. 10.....	do.....	4,968	116,390	144,587	265,945
6	Harrisburg-Southern Coal Co., No. 1.....	Eldorado.....	26,528	88,000	150,608	265,136
7	Wasson Coal Co., No. 1.....	Harrisburg.....	53,079	89,392	116,950	259,421
8	O'Gara Coal Co., No. 4.....	do.....	11,562	158,131	75,207	244,900
9	O'Gara Coal Co., No. 14.....	do.....	111	146,314	91,651	238,076
10	Saline Co. Coal Co., No. 3.....	do.....	16,166	40,079	179,081	235,326
11	Eldorado Coal Mining Co., No. 1.....	Eldorado.....	27,092	92,037	112,837	231,966
12	O'Gara Coal Co., No. 15.....	Harrisburg.....	36,965	101,706	54,486	193,151
13	O'Gara Coal Co. No. 11.....	do.....	118,264	11,586	4,769	134,619
14	Saline Co. Coal Co., No. 1.....	Ledford.....	21,224	20,410	64,033	105,667
15	O'Gara Coal Co., No. 7.....	Harrisburg.....	49,158	30,151	11,699	91,008
16	O'Gara Coal Co., No. 8.....	do.....	26,649	28,734	12,845	68,228
17	O'Gara Coal Co., No. 12.....	do.....	1,583	18,288	11,633	31,504
18	St. Louis C. & C. Co., No. 1.....	Galatia.....	8,000	8,000	4,000	20,000
Total.....			561,653	1,912,303	1,602,800	4,076,756
LOCAL MINES.						
1	W. R. Heushaw.....	Carrier Mills.....	5,000	.....	.....	5,000
2	T. S. Thompson.....	Mitchellville.....	.....	1,000	2,000	3,000
3	Job Ingram.....	Harrisburg.....	400	250	195	845
4	Moore & McDonald.....	Carrier Mills.....	200	300	200	700
5	S. J. Moore.....	Equality.....	.....	600	.....	600
6	Hazel & Steele.....	do.....	.....	600	.....	600
7	John Cogdill.....	Stonefort.....	500	.....	.....	500
8	L. G. Dunn.....	do.....	250	.....	.....	250
9	Southard & Lynch.....	Ledford.....	.....	75	75	150
10	Yates & Reynolds.....	Equality.....	.....	100	.....	100
11	Ollinson & Edwards.....	do.....	50	.....	.....	50
12	J. L. Dunn.....	Stonefort.....	.....	24	.....	24
Total.....			6,400	2,949	2,470	11,819
Total—30 mines.....			568,053	1,915,252	1,605,270	4,088,575

Mines reported for 1911, 32.

New mines, 2.

Abandoned mines, 4.

Mines in 1912, 30.

Eleventh District—1912.

Disposition of output.		Keys of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Accidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
516 855	6,728	4,906	230	.....	456	456	1,059	522,524	15	4	U. C.	.....	37	1
490,307	7,916	4,891	238	.....	459	459	.....	498,223	1	13	do.	.....	36	2
330,484	53,201	3,189	200	.....	428	428	1,554	382,131	1	6	do.	.....	37	3
280,525	5,793	4,419	243	.....	268	268	47,142	239,176	1	4	Both.	.....	30	4
253,460	12,485	2,244	207	.....	300	300	.....	265,945	1	2	U. C.	.....	24	5
265,136	.....	5,820	254	125	53	178	121,963	143,173	2	.....	Solid.	.....	12	6
256,451	2,970	2,250	249	.....	258	258	.....	259,421	2	7	U. C.	.....	18	7
231,578	13,322	2,171	190	.....	292	292	.....	244,900	1	5	do.	.....	29	8
231,884	6,192	2,326	189	.....	319	319	.....	238,076	1	2	do.	.....	25	9
228,619	6,707	3,379	260	.....	286	286	.....	235,326	.....	6	do.	.....	.....	10
229,838	2,128	7,047	235	152	82	234	140,266	91,700	.....	3	Both.	.....	22	11
191,554	1,597	2,223	206	.....	215	215	599	192,552	.....	1	U. C.	.....	19	12
129,770	4,849	1,156	160	.....	248	248	.....	134,619	1	1	do.	.....	17	13
102,464	3,203	1,327	215	.....	174	174	6,317	99,350	.....	.....	Both.	.....	8	14
87,620	3,388	1,002	135	.....	182	182	.....	91,008	.....	3	U. C.	.....	12	15
66,598	1,630	646	92	.....	185	185	.....	68,228	.....	.....	do.	.....	16	16
28,895	2,609	401	96	.....	129	129	.....	31,504	.....	5	do.	.....	14	17
15,500	4,500	800	90	25	23	48	20,000	.....	2	3	Solid.	.....	3	18
3,937,538	139,218	50,197	194	302	4,357	4,659	338,900	3,737,856	28	65	.....	.....	359	.....
.....	5,000	175	200	2	1	3	5,000	.....	.....	.....	.....	.....	.....	1
.....	3,000	40	100	3	1	4	3,000	.....	.....	.....	.....	.....	.....	2
.....	845	25	102	2	1	3	845	.....	.....	.....	.....	.....	.....	3
.....	700	34	220	3	.....	3	700	.....	.....	.....	.....	.....	.....	4
.....	600	17	200	2	1	3	600	.....	.....	.....	.....	.....	.....	5
.....	600	20	300	3	.....	3	600	.....	.....	.....	.....	.....	.....	6
.....	500	20	265	1	1	2	500	.....	.....	.....	.....	.....	.....	7
.....	250	7	140	1	.....	1	250	.....	.....	.....	.....	.....	.....	8
.....	150	10	20	2	1	3	150	.....	.....	.....	.....	.....	.....	9
.....	100	3	60	1	.....	1	100	.....	.....	.....	.....	.....	.....	10
.....	50	1	30	1	.....	1	50	.....	.....	.....	.....	.....	.....	11
.....	24	1	12	1	.....	1	24	.....	.....	.....	.....	.....	.....	12
.....	11,819	353	137	22	6	28	11,819	.....	.....	.....	.....	.....	.....	.....
3,937,538	151,037	50,550	171	324	4,363	4,687	350,719	3,737,856	28	65	.....	.....	359	.....

White County—

Number	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	Norris City Coal Co.....	Norris City.....	14,690	7,026	10,058	31,774

Mines reported for 1911, 1.

Mines in 1912, 1.

Shipping mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons.						Total.	Disposition of output—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
Franklin..	16	637,694	871,462	607,973	512,569	1,276,447	120,670	4,026,815	3,862,229	164,586
Gallatin...	3	10,174	27,653	2,544	1,989	12,943	7,824	63,127	56,332	6,795
Saline.....	18	561,653	1,912,303	326,289	181,800	1,075,532	19,179	4,076,756	3,937,538	139,218
White.....	1	14,690	7,026	.....	4,844	1,611	3,603	31,774	19,936	11,838
Total..	38	1,224,211	2,818,444	936,806	701,202	2,366,533	151,276	8,198,472	7,876,035	322,437

Eleventh District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Accidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
19,936	11,838	282	155	30	25	55	1,129	30,645	.....	.....	Both...	.....	4	1

counties—Eleventh District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees.					Tons mined.		Blasting coal.		
		Underground.			All above ground.	Total.	By hand.	By machine.	From solid—tons.	Undercut—tons.	Both methods—tons.
		Miners.	Others.	Boys.							
27,039	205	554	3,369	80	469	4,472	475,737	3,551,078	70,003	2,886,849	1,069,963
2,604	155	80	39	.....	16	135	47,664	15,463	47,664	15,463	.....
50,197	194	302	3,884	79	394	4,659	338,900	3,737,856	285,136	3,167,669	623,951
282	155	30	17	.....	8	55	1,129	30,645	.....	.....	31,774
80,122	194	966	7,309	159	887	9,321	863,430	7,335,042	402,803	6,069,981	1,725,688

Local mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons.						Total.	Disposition of output—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
Gallatin...	7	2,680	6,105	.....	1,250	.....	458	10,493	.....	10,493
Saline.....	12	6,400	2,949	.....	2,470	.....	.....	11,819	.....	11,819
Total..	19	9,080	9,054	.....	3,720	.....	458	22,312	.....	22,312
The Dist..	57	1,233,291	2,827,498	936,806	704,922	2,366,533	151,734	8,220,784	7,876,035	344,749

Whole number of mines reported for 1911, 59.

Number of new mines opened during the year, 4.

Number of mines abandoned during the year, 6.

Whole number of mines reported for 1912, 57.

All mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons.						Total.	Disposition of output—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
Franklin..	16	637,694	871,462	607,973	512,569	1,276,447	120,670	4,026,815	3,862,229	164,586
Gallatin...	10	12,854	33,758	2,544	3,239	12,943	8,282	73,620	56,332	17,288
Saline.....	30	568,053	1,915,252	326,289	184,270	1,075,532	19,179	4,088,575	3,937,538	151,037
White.....	1	14,690	7,026	.....	4,844	1,611	3,603	31,774	19,936	11,838
Total..	57	1,233,291	2,827,498	936,806	704,922	2,366,533	151,734	8,220,784	7,876,035	344,749

counties—Eleventh District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees.					Tons mined.		Blasting coal.		
		Underground.			All above ground.	Total.	By hand.	By machine.	From solid—tons.	Undercut—tons.	Both methods—tons.
		Miners.	Others.	Boys.							
494	166	22	.....	.....	6	28	10,493	.....	.....	.....	.....
353	137	22	.....	2	4	28	11,819	.....	.....	.....	.....
847	148	44	.....	2	10	56	22,312	.....	.....	.....	.....
80,969	179	1,010	7,309	161	897	9,377	885,742	7,335,042	.....	.....	.....

counties—Eleventh District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees.						Tons mined.		Blasting coal.		
		Underground.			All above ground.	Total.	By hand.	By machine.	From solid—tons.	Undercut—tons.	Both methods—tons.	
		Miners.	Others.	Boys.								
27,039	205	554	3,369	80	469	4,472	475,737	3,551,078	.....	.....	.....
3,098	163	102	39	.....	22	163	58,157	15,463	.....	.....	.....
50,550	171	324	3,884	81	398	4,687	350,719	3,737,856	.....	.....	.....
282	155	30	17	.....	8	55	1,129	30,645	.....	.....	.....
80,969	179	1,010	7,309	161	897	9,377	885,742	7,335,042	.....	.....	.....

TWELFTH INSPECTION DISTRICT—1912.

ANNUAL REPORT.

Counties—Johnson, Williamson.

OSCAR CARTLIDGE, *Inspector*, Marion.

Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield:

SIR—Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing counties of Johnson and Williamson.

SUMMARY OF THE ITEMS SHOWN IN THE REPORT.

Number of counties producing coal.....	2
Number of shipping mines.....	34
Number of local mines.....	15
Number of new or reopened mines.....	3
Number of closed or abandoned mines.....	6
Number of miners.....	4,469
Others underground, men.....	3,008
Boys underground.....	232
Boys above ground.....	5
Others above ground.....	808
Total number of employees.....	8,522
Total tons of coal produced.....	7,090,425
Days of active operation, all mines.....	150
Keys of powder used for blasting coal.....	187,014
Tons of coal shipped.....	6,693,959
Tons supplied to locomotives.....	7,601
Tons sold to local trade.....	69,382
Tons consumed and wasted at the mines.....	319,483
Number of fatal accidents.....	23
Number of non-fatal accidents.....	62
Number of employees to each fatal accident.....	371
Number of employees to each non-fatal accident.....	137
Tons of coal produced to each fatal accident.....	308,279
Tons of coal produced to each non-fatal accident.....	114,362
Ratio of fatal accidents per 1,000 employees.....	2.7

The following table shows the output by counties for the years ended June 30, 1911 and 1912, with the increase:

Counties.	Total output—tons.		Increase.
	1911.	1912.	
Johnson.....	1,521	3,871	2,350
Williamson.....	5,212,749	7,086,554	1,873,805
Total.....	5,314,270	7,090,425	1,876,155

NEW MINES.

Three mines not reported last year are classed this year as new mines.

IDLE MINES.

The following shipping mines have not operated during the year: Keystone Big Muddy Coal & Coke Company, Pittsburg; Gent Coal Company, Marion; Big Muddy Consolidated Coal Company, Johnston City; Standard Collieries Company No. 1, Whiteash.

The local mines not in operation are the Spillertown Coal Company, and W. O. Beasley. These mines are classed as abandoned mines.

CHANGE OF NAME.

The Standard Collieries Company No. 2, Johnston City, is known as the McClintock mine, E. C. Searles, receiver.

Of the local mines, the George Beltz mine was changed to the Carlisle Coal Company and later to J. W. Stallcup mine; the S. A. Woodbridge is now Simpson & Anderson; the Smith mine is operated by L. Bradley.

CYCLONE.

The Western Coal & Mining Company, Bush, suffered a severe property damage, and fifteen lives were lost as the result of a cyclone which destroyed the greater part of the village, the evening of the 20th of April, 1912.

The office, store and numerous residence buildings, all of which belonged to the company, were destroyed, entailing a loss of about \$75,000.00 with no insurance.

Much suffering and great damage to personal property was caused to the residents, most of whom were employees. The miners and residents of the community as well as the company responded nobly to the call of distress. Governor Deneen sent a supply of tents and in a short time everybody was provided for, and as comfortable as they could be under the circumstances.

This same cyclone destroyed the boiler house and part of the engine room at the W. P. Rend Collieries Company, No. 2 mine, and some damage to the boiler house at Peabody No. 3, but fortunately no lives were lost at either place.

IMPROVEMENTS.

Nearly all of the mines in the district took advantage of the April and May suspension and cleaned up their roadways, went over their stoppings, made new partings and repaired their screens, machinery, etc.

The Pittsburg & Big Muddy Coal Company, installed a 150 K. W., 275 volts, Thompson-Ryan generator, direct connected to an 18 inch by 18 inch Ridgeway engine; four Goodman chain breast machines, and one 6-ton Goodman gathering motor. They also built an addition to their engine room to contain the new machinery.

The West Virginia Coal Company has added to its equipment, one 100 K. W., 275 volts, Ridgeway dynamo, direct connected to a 16 inch by 16 inch Ridgeway engine, and a rescreening plant for taking care of the smaller sizes of coal.

The Johnston City Coal Company has increased its equipment with fifteen Morgan-Gardener H. H. D. chain breast under-cutting machines; one 200 K. W., 275 volts, Crocker-Wheeler generator, direct connected to a 21 inch by 22 inch Skinner automatic engine; four 150 H. P. 125 pounds pressure, Frost boilers, and three complete Draeger mine rescue apparatus, with oxygen pump, a pulmotor, two dozen Wolf safety lamps, and three portable electric lamps.

The Chicago & Big Muddy Coal & Coke Company has re-timbered the escapement shaft; put a concrete foundation under the fan; re-timbered the underground stable; put up new ropes and sheaves; raised the drag conveyor, and installed two Goodman chain breast machines as an experiment.

The Peabody Coal Company has installed at mine No. 3, a 300 K. W., 275 volts, general electric generator, which is direct connected to a 22 inch by 24 inch Chuse engine.

The Madison Coal Corporation is constructing at No. 9 mine, a Jeffrey 14 feet by 5 feet double inlet, reversible, underthrow fan, which will be absolutely fireproof and will deliver 200,000 cubic feet of air per minute at 150 revolutions against a water gauge of 4 inches. It will have two Skinner, high speed, automatic, 19 inch by 20 inch, direct connected engines, and with both engines running it will be capable of delivering 250,000 cubic feet per minute with a 6-inch water gauge. Nicholson engine stops are being provided for the hoists at both No. 8 and No. 9 mines.

This company is building alongside Dr. Spring's residence at Dewmaine, a hospital, that will be convenient and sanitary, fitted up with everything that will be for the comfort of the patients, and large enough to accommodate six at one time. It will be heated with hot air and provided with every necessity to take care of their seriously injured.

Mine rescue stations are under construction at Nos. 8 and 9 mines, which will, when completed, be a source of pride not only to the company but to the district. The buildings are of brick, with reinforced concrete roofs, and will have a first-aid and observation room, 16 feet by 17 feet 4 inches; a smoke chamber, 8 feet by 10 feet; a rescue apparatus room, 6 feet by 8 feet 4 inches; a supply room, 6 feet by 8 feet 4 inches; a dressing room, 8 feet by 8 feet 3 inches, and a shower bath room, 8 feet by 7 feet. Three complete Fleuss rescue outfits have been purchased for each mine, and in addition to the rescue stations on the surface, a concrete room will be provided underground at each mine for the same purpose. These underground rooms will be heated by electricity, and will contain stretchers, blankets, bandages, medicines, etc., for emergency use.

A large number of the company's supervising officers and miners have been trained at its expense at the State Mine Rescue Station at Benton, and efficient rescue and first-aid teams will be maintained and regularly drilled at each mine, so, that, if anything serious occurs, they will be ready to respond as quickly and effectively as organized effort can make possible.

In addition to the above improvements, gasoline motors have been purchased by the following companies: Taylor Coal Company, mine No. 2; Carterville District Coal Company; Watson Coal Company; Carterville Coal Company; Southern Illinois Coal Company's Oak Ridge mine.

FATAL ACCIDENTS.

July 3, 1911, Nick Trumbar, miner, aged 38 years, single, was killed by falling slate in the Madison Coal Corporation's No. 9 mine, Dewmaine, Williamson County.

August 9, 1911, Robert Stucker, miner, aged 42 years, married, was killed by falling slate in the Pond Creek Coal Co.'s mine, Herrin, Williamson County. He leaves a widow and six children.

August 21, 1911, Hosea Formler, driver, aged 21 years, single, employed in the Pond Creek Coal Co.'s mine, was killed by pit cars.

August 23, 1911, Angela Verger, miner, aged 27 years, married, was killed by flying coal in the Big Muddy Fuel Co.'s mine, Johnston City. He leaves a widow and three children.

August 23, 1911, Thomas Bullars, miner, aged 45 years, married, was killed in the Big Muddy Fuel Co.'s mine, Johnston City, by a premature blast. He leaves a widow and one child.

September 15, 1911, Allen Roach, miner, aged 18 years, single, was killed by falling slate in the Taylor Coal Co.'s No. 2 mine, Herrin, Williamson County.

September 19, 1911, Ernest Parks, driver, aged 24 years, married, was killed by pit cars in the Williamson County Coal Company's mine, Johnston City. He leaves a widow.

September 27, 1911, William Arbilait, shot frirer, aged 27 years, married, employed in the Southern Illinois Coal Company's Oak Ridge mine, Herrin, was killed by a premature blast. He leaves a widow and two children.

October 4, 1911, Ernest Gosnell, trapper, aged 17 years, single, was killed by falling coal in the Sunnyside Coal Co.'s mine, Herrin.

December 15, 1911, Holiday Jeter, miner, aged 26 years, married, employed in the No. 3 mine of the Peabody Coal Company, Marion, was killed by a fall of slate in his room. Upon entering his working place he found that a shot, fired the previous night, was standing "tight," and he started to mine it loose over the top. While so engaged a large piece of slate fell, breaking his neck. He leaves a widow and two children.

December 31, 1911, John Figula, laborer, aged 26 years, single, was engaged, together with three other men, in pushing a loaded car of timber onto the cage at the top landing at No. 9 mine of the Madison Coal Corporation. The front end of the car got off the tracks on the cage and Figula took a timber off the car and attempted to lift the end onto the track. In some way the timber slipped and he fell into the shaft. He landed on the north cage which was hanging about seventy feet from the top and was dead when help reached him.

January 3, 1912, Earl Cox, miner, age not given, single, was killed in the Jeffries mine of the Carterville and Herrin Coal Company, Herrin, by a fall of slate.

Some months before this when the present mine manager took charge of the mine, he discovered that young Cox and several other boys, working underground, were not of the legal age, and they were removed. After waiting until he was sixteen Cox applied again for a position and his brother signing an agreement to take care of him, he was reinstated. He had been working about four months when death came. The slate that fell on him had been sounded by his brother who thought it safe, but to make sure had put up a prop to support it. Apparently, it was looser than they thought, and one prop was not enough to hold it. He was crushed about the head and shoulders; was taken at once to the Murphysboro hospital, where he died the same day.

January 27, 1912, Joe Feltes, miner, aged 46 years, married, was killed by a fall of slate in the mine of the Sunnyside Coal Company, Herrin. Deceased was loading coal in his room when a large piece of the roof fell upon him. There was no top coal and a slip at the face caused the slate to loosen and give way. He leaves a widow.

February 3, 1912, John Akocitis, miner, aged 22 years, single, was killed in the mine of the Johnston City Coal Company, Johnston City, by falling coal from the face.

February 6, 1912, Ed Boyd, miner, aged 33 years, married, was killed by a fall of slate in Oak Ridge mine of the Southern Illinois Coal Company, Johnson City. The piece which fell was about seven or eight feet from the face of his room and had been supported by three props which were sprung when the weight came upon them. He was drilling a hole at the time, and no doubt heard the slate breaking and ran, getting under it just as it fell. He leaves a widow and two children.

February 8, 1912, Marshall Jack, machine helper, aged 36 years, married, was killed in the mine of the Carterville District Coal Co., Marion. The machine was cutting the fourth board in a room when a slip at the back of the cut caused the coal to loosen and fall on him. The slip could not be seen and the noise of the machine, which was of the puncher type, no doubt made it impossible for him to hear the coal working before it fell. He leaves a widow and two children.

February 22, 1912, Fred S. Darnell, driver, aged 18 years, single, employed in the mine of the Johnston City Coal Company, Johnston City, was killed by falling in front of a car. In attempting to alight from his car while it was in motion his foot slipped and he fell in front of it. He leaves his mother and two small sisters who depended upon him for support.

March 2, 1912, Randolph Dale, timberman, aged 62 years, married, employed at the Big Muddy Coal & Iron Company's No. 7 mine, Herrin, was injured by falling slate, causing death on March 4th. On the morning of the accident deceased was sent into room No. 62, by the mine manager to secure some loose top. Thinking it better to take the loose material down than to attempt to timber it, he proceeded to knock a prop which was supporting part of the slate. While so engaged the mass of loose rock gave way, crushing him underneath it. He leaves a widow and two children.

March 10, 1912, Ira Schull, driver, aged 18 years, single, employed in the McClintock mine, Johnston City, was killed by a gas explosion.

March 13, 1912, Carlo Tudorolo, laborer, aged 46 years, employed in the No. 8 mine of the Madison Coal Corporation, Dewmaine, died from injuries caused by falling slate which occurred the evening of March 11th. Deceased was engaged in cutting hitch holes for "I" beams at the shaft bottom when a large piece of slate fell, breaking his back. He leaves a widow and four children.

March 30, 1912, William Patterson, motorman, aged 23 years, married, employed by the Chicago & Big Muddy Coal & Coke Company, Marion, lost his life by falling in front of a moving trip of loaded cars. Deceased had gone into the main west parting for a trip, and while inside a cross-bar fell across the track, one end resting on the ground, the other on the trolley wire. In coming out he did not see the bar until almost upon it, when he shut off the motor and attempted to jump, falling under the moving cars. He leaves a widow.

May 17, 1912, John Watson, assistant mine manager, aged 30 years, married, employed at Taylor Coal Co.'s No. 2 mine, Herrin, was killed by falling off a moving motor, which ran over him. He leaves a widow and four children.

June 16, 1912, William Murphy, timberman, aged 26 years, single, employed at No. 2 mine of the W. P. Rend Coal & Coke Co., Herrin, while engaged in cutting a hitch for an "I" beam, which was to be placed across the main entry near the shaft bottom, was killed by a large piece of slate, which fell from the roof.

Respectfully submitted,

OSCAR CARTLIDGE,

State Inspector of Mines, Twelfth District, Marion, Ill.

Fatal casualties—Twelfth District—June 30, 1912.

Date.	Name.	Age.	Occupation.	Residence.	Married. Single.	Widow.	Children.	Dependents.	Cause of death.
1911.									
July 3	Nick Trimbar.....	38	Miner.....	Dewmaine.....	1	1	6	7	Falling slate.....
Aug. 21	Robt. Trucker.....	42	do.....	Herrin.....	1	1	6	7	do.....
	Hosea Formler.....	21	Driver.....	do.....	1	1	1	2	Pit car.....
	Angelo Verger.....	27	Miner.....	Johnston City.....	1	1	3	4	Flying coal.....
	Thos. Bullaro.....	45	do.....	do.....	1	1	1	2	Premature blast.....
Sept. 15	Allen Roach.....	18	do.....	Cartersville.....	1	1	1	1	Falling slate.....
	Ernest Parks.....	24	Driver.....	Johnston City.....	1	1	1	1	Pit cars.....
	William Arbilait.....	27	Shot firer.....	do.....	1	1	2	3	Premature blast.....
Oct. 4	Ernest Goswell.....	17	Trapper.....	Herrin.....	1	1	1	2	Falling coal.....
Dec. 15	Holiday Jeter.....	26	Miner.....	Marion.....	1	1	2	3	Falling slate.....
	John Figula.....	26	Laborer.....	Cambria.....	1	1	1	1	Fell down shaft.....
1912.									
Jan. 3	Earl Cox.....	Miner.....	Herrin.....	1	1	1	1	1	Falling slate.....
	Joe Feltes.....	46	do.....	do.....	1	1	1	1	do.....
Feb. 3	John Atkocitis.....	22	do.....	Johnston City.....	1	1	1	1	Falling coal.....
	Ed. Boyd.....	33	do.....	do.....	1	1	2	3	Falling slate.....
	Marshall Jack.....	36	Machine helper.....	Marion.....	1	1	2	3	Falling coal.....
	Fred S. Darnell.....	18	Driver.....	Johnston City.....	1	1	1	3	Pit cars.....
Mar. 4	Randolph Dale.....	62	Timberman.....	Herrin.....	1	1	2	1	Falling slate.....
	Ira Schule.....	18	Driver.....	Danville.....	1	1	1	1	Gas explosion.....
	Carlo Tudorolo.....	46	Laborer.....	Dewmaine.....	1	1	4	5	Falling slate.....
	William Patterson.....	23	Motorman.....	Marion.....	1	1	1	1	Motor.....
May 17	John Watson.....	30	Mine manager.....	Herrin.....	1	1	1	4	do.....
June 16	William Murphy.....	26	Miner.....	Weaver.....	1	1	1	1	Falling slate.....
	Total.....				13	10	13	28	41

Recapitulation of fatal casualties—Twelfth District—1912.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Cambria.....	1	Drivers.....	4	Falling coal.....	4	Big Muddy C. & I.....	1
Cartersville.....	1	Laborers.....	2	Falling slate.....	10	Big Muddy Fuel.....	2
Danville.....	1	Machine helper.....	1	Flying coal.....	1	Cartersville Herrin.....	1
Dewmaine.....	2	Mine manager.....	1	Gas explosion.....	1	Cartersville Dist.....	1
Herrin.....	7	Miners.....	11	Motor.....	2	Chicago & Big Muddy.....	1
Johnston City.....	7	Motorman.....	1	Pit car.....	3	Johnston City.....	2
Marion.....	3	Shot firer.....	1	Premature blast.....	2	Madison Corp.....	3
Weaver.....	1	Timberman.....	1			Peabody.....	1
		Trapper.....	1			Pond Creek.....	2
						Rend, W. P.....	1
						Southern Illinois.....	2
						Standard, Col.....	1
						Sunnyside.....	2
						Taylor.....	2
						Williamson Co.....	1
Total.....	23		23		23		23

Non-fatal casualties—Twelfth District—June 30, 1912.

Date.	Name.	Residence.	Age.	Married.	Single.	Children.	Dependents.	Character of injury and cause of accident.	Time lost—days.
1911.									
July	7 Jas Truson	30 Rendville	1	1		1	2	Head injured, cage	95
	8 Victor Meran	45 Johnston City		1				Ankle injured, falling slate	53
	12 Mike Ferrentelli	40 White Ash	1			2	3	Shoulders injured, falling slate	60
	14 Carmel Cosentino	37 Dewmaine		1				Leg broken, falling slate	75
	14 Harry Bailey	21 Herrin		1				Head injured, falling slate	30
	22 John Harris	21 Johnston City		1				Arm broken, machine	62
Aug.	20 Peter Henderson	39 Herrin		1			1	Leg broken, falling slate	90
	23 Rufus Jackson	30 Dewmaine		1		2	3	Leg broken, pit car	72
Sept.	22 Walter McHale	20 Johnston City		1				Head injured, falling slate	32
Oct.	17 Frank Shelton	40 ..do		1		2	3	Toes broken, falling slate	60
	17 Ben F. Kelley	29 Carterville		1				Foot injured, pit car	67
	20 Thos. Jones	28 Bush		1		1	2	Body injured, falling slate	30
	22 H. B. Eckles	38 Rendville		1			1	Foot injured, railroad car	60
Nov.	2 Louis Viccaire	34 White Ash		1				Wrist broken, pit car	45
	4 H. K. Gowman	23 Herrin		1		1	2	Finger injured, pit car	34
	7 Paul Notti	30 Johnston City		1				Leg broken, falling slate	60
	9 Thos. White	30 Herrin		1				Leg injured, railroad car	180
	9 Fred Scott	24 Carterville		1				Leg broken, pit car	66
	14 Hayes Alexander	35 Marion		1				Leg broken, falling slate	*
	15 Harry Meese	22 Bush		1			1	Leg injured, railroad car	30
	21 Richard Moore	33 Dewmaine		1			1	Arm injured, falling slate	60
	25 Tom Samples	21 Marion		1				Back injured, pit car	50
	25 Joe Salavaga	28 Colpville		1				Leg injured, falling slate	60
	28 Speer Refernes	25 Clifford		1		1	30	Body burned, gas explosion	30
	28 Geo. Machas	39 ..do		1		2	3	..do	30
Dec.	1 Wick Ielasi	24 Johnston City		1		1		Hand injured, machine	60
	1 Able Hicks	53 Herrin		1			1	Collar bone broken, pit car	68
	13 Lucas Dallas	39 Dewmaine		1		2	3	Arm broken, fell down	30
	18 Wm. Mauzy	33 Clifford		1		4	5	Back injured, lifting truck	33
	30 Otis Jones	27 Johnston City		1				Leg injured, falling slate	30
1912.									
Jan.	2 Geo. Gray	31 Bush		1		1	2	Body injured, pit car	36
	5 Pete Ansuella	25 Clifford		1				Leg injured, pit car	33
	8 Mat Mortimer	59 Herrin		1		7	4	Head injured, falling slate	71
Feb.	5 Nick Gloviano	52 Johnston City		1		1	2	Toe broken, falling slate	30
	9 Joe Ogeline	21 Bush		1				Wrist broken, falling coal	60
	10 Fred Renard	36 Herrin		1		6	7	Body burned, gas explosion	30
	14 Geo. Perrine	45 Marion		1		3	4	Leg injured, pit car	60
	19 Harry Hoehinghaus	21 Herrin		1		1	2	..do	30
	20 Pete Zantoff	30 ..do		1				Leg broken, engine	84
	20 Clint Hendley	17 ..do		1				Collar bone broken, pit car	60
	20 John Robinson	52 Marion		1		1	2	Body injured, falling slate	35
	22 Fred Buckner	19 Clifford		1				Finger broken, falling coal	30
	22 Ed. Lewis	26 ..do		1		2	3	Leg injured, falling slate	30
	26 Hugh Bell	21 Herrin		1				Leg injured, kicked by mule	40
	28 Dominick Falone	32 Johnston City		1		1	2	Shoulder injured, coal falling down shaft	30
Mar.	5 Dan Watson	55 Dewmaine		1		7	7	Body injured, pit car	50
	9 Bennett Everett	50 Marion		1		7	9	Leg injured, machine	*
	9 John Shubiniski	24 Bush		1		3	4	Foot broken, falling slate	60
	12 John Owens	45 Herrin		1		4	5	Wrist injured, pit car	30
	18 J. L. Weaver	56 ..do		1		6	6	Foot injured, falling coal	34
	21 G. B. Camperoni	37 Johnston City		1				Ankle broken, falling coal	70
	21 Fred Williams	26 Herrin		1				Leg broken, falling slate	*
	22 Otto Wyatt	21 Johnston City		1				Leg broken, mule	60
	22 John Polenski	41 Marion		1		2	4	Body burned, blown out shot	60
	25 Nuburn Bryan	20 Johnston City		1				Ankle injured, pit car	35
	28 Norman McClintock	17 Herrin		1				Ribs broken, falling slate	36
	28 Bert Mann	32 Carterville		1		5	6	Foot injured, falling slate	

Non-fatal casualties—Twelfth District—Concluded.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependents.	Character of injury and cause of accident.	Time lost—days.
1912.									
May 14	Joe Delozzia.....	25	Johnston City..	1				Leg injured, machine.....	63
20	Chas. Marlow.....	25	Herrin.....	1				Leg broken, falling slate.....	36
24	Harry Smothers.....	23	Carterville.....	1				Body injured, pit car.....	47
June 7	Grover Hoover.....	28	do.....	1				Ankle injured, falling cross bar.	30
15	Henry Morris.....	49	Herrin.....	1		5	6	Finger cut off, falling coal.....	*
	Total.....			24	28	79	110		

* Not returned to work, July 1, 1912.

Total number injured.....	62
Number not returned to work July 1, 1912.....	4

Number returned.....	58
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Total number of days lost by men returned to work.....	2,981
Average days lost.....	51.40

Recapitulation of non-fatal casualties—Twelfth District—1912.

Residence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Bush.....	5	Cagers.....	4	Blown out shot.....	1	Big Muddy C. & I.....	8
Cartersville.....	5	Couplers.....	2	Cage.....	1	Big Muddy Fuel.....	3
Clifford.....	6	Drivers.....	12	Coal fell down shaft.....	1	Cartersville.....	1
Colpville.....	1	Foreman.....	1	Engine.....	1	Cartersville Dist.....	1
Dewmaine.....	5	Laborers.....	4	Falling coal.....	5	Chicago & Big Muddy.....	1
Herrin.....	17	Loaders.....	2	Falling cross bar.....	1	Chicago & Cartersville.....	8
Johnston City.....	13	Machine runner.....	6	Falling slate.....	22	Hafer Washed.....	5
Marion.....	6	Miners.....	21	Fell down.....	1	Johnston City.....	1
Rendville.....	2	Shot firers.....	1	Gas explosion.....	3	Madison Corp.....	7
White Ash.....	2	Timbermen.....	6	Lifting truck.....	1	Rend, W. P.....	3
		Trappers.....	2	Machine.....	4	Standard Col.....	6
		Trip rider.....	1	Mule, kicked by.....	2	Sunnyside.....	3
				Pit cars.....	16	Taylor.....	1
				Railroad cars.....	3	Watson.....	2
						Western.....	5
						West Virginia.....	2
						Williamson Co.....	5
Total.....	62		62		62		62

Recapitulation of non-fatal casualties, nature of injuries, conjugal relations and time lost—Twelfth District—1912.

Nature of injuries.	Number.	Married.	Single.	Children.	Dependents.	Time lost—days.		Percent- age of injuries.
						Total.	Average.	
Ankle broken.....	1	1	—	—	1	70	70.00	1.61
Ankles injured.....	3	—	3	—	—	118	39.33	4.84
Arms broken.....	2	1	1	2	3	92	46.00	3.22
Arm injured.....	1	1	—	—	1	60	60.00	1.61
Backs injured.....	2	1	1	4	5	83	41.50	3.23
Bodies burned.....	4	3	1	10	14	150	37.50	6.45
Bodies injured.....	5	4	1	10	13	208	41.60	8.07
Collar bone broken.....	2	1	1	—	1	128	64.00	3.23
Feet broken.....	1	1	—	3	4	60	60.00	1.61
Feet injured.....	4	3	1	11	14	210	52.50	6.45
Finger broken.....	1	—	1	—	—	30	30.00	1.61
Finger cut off.....	1	1	—	5	6	—	—	1.61
Fingers injured.....	1	1	—	1	2	34	34.00	1.61
Hand injured.....	1	—	1	—	—	60	60.00	1.61
Heads injured.....	4	2	2	8	6	228	57.00	6.45
Legs broken.....	10	3	7	2	5	543	67.87	16.13
Legs injured.....	11	6	5	13	20	556	55.60	17.74
Ribs broken.....	1	—	1	—	—	36	36.00	1.61
Shoulders injured.....	2	2	—	3	5	90	45.00	3.23
Toes broken.....	2	2	—	3	5	90	45.00	3.23
Wrists broken.....	2	—	2	—	—	105	52.50	3.23
Wrists injured.....	1	1	—	4	5	30	30.00	1.61
Total.....	62	34	28	79	110	2,981	51.40	100.00

Johnson County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
LOCAL MINES.						
1	John Hampton.....	New Burnside.....		1,652	52	1,704
2	Fyler & Heaton.....	do.....		1,289	275	1,564
3	T. M. McMichael.....	do.....		500	103	603
Total—3 mines.....				3,441	430	3,871

Mines reported for 1911, 2.

New mines, 1.

Mines in 1912, 3.

Twelfth District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Accidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
.....	1,704	6	59	2	.....	2	1,704	.....	.....	.....	.....	.....	.....	1
.....	1,564	30	161	4	1	5	1,564	.....	.....	.....	.....	.....	.....	2
.....	603	20	150	2	1	3	603	.....	.....	.....	.....	.....	.....	3
.....	3,871	56	123	8	2	10	3,871	.....	.....	.....	.....	.....	.....

Williamson County—

Number.	Name of operator.	Postoffice address of the mines.	Output of mines in tons.			
			Mine run.	Lump.	Other grades.	Total.
SHIPPING MINES.						
1	Big Muddy C. & I. Co., No. 8.	Clifford	303,960	57,127	209,608	570,695
2	Johnston City Coal Co., No. 1.	Johnston City	296,302	112,051	131,883	540,236
3	Madison Coal Corp., No. 9.	Dewmaine	365,292	32,678	25,586	423,556
4	Chicago & Cartersville Coal Co., A.	Herrin	23,450	89,276	294,694	407,420
5	Sunnyside Coal Co., No. 1.	do.	4,126	47,569	290,688	342,383
6	Western Coal Mining Co., Bush	Bush	259,664	16,659	56,370	332,693
7	Big Muddy Coal & Iron Co., No. 7.	Herrin	133,887	32,024	147,598	313,509
8	W. P. Rend C. & C. Co., No. 2.	do.	55,176	46,002	189,760	290,938
9	Madison Coal Corp., No. 8.	Dewmaine	174,397	63,845	50,726	288,968
10	Peabody Coal Co., No. 2.	Marion	3,771	62,539	162,055	228,365
11	Taylor Coal Co., No. 2.	Herrin	9,064	28,569	190,186	227,819
12	Peabody Coal Co., No. 3.	Marion	8,754	37,241	176,706	222,701
13	Cartersville Coal Co., Burr C.	Cartersville	6,552	50,236	161,630	218,418
14	Chicago & Big Muddy C. Co.	Marion	27,793	42,230	134,369	204,392
15	Hafer Washed Coal Co., No. 3.	Cartersville		28,326	171,811	200,137
16	Chicago & Cartersville C. Co., B.	Herrin	5,122	42,600	149,812	197,534
17	West Virginia Coal Co., No. 1.	Marion	67,968	62,026	62,363	192,357
18	Southern Ill. C. & C. Co., O. R.	Herrin	3,085	36,229	149,559	188,873
19	Big Muddy Fuel Co., N. Va.	Johnston City	24,147	26,637	128,597	179,381
20	Cartersville Dist. C. Co., No. 1.	Marion	6,000	34,078	134,312	174,390
21	Pond Creek Coal Co., Franklin	Herrin	75,689	21,950	60,450	158,089
22	Standard Col. Co., McClintock	Johnston City	15,875	41,151	92,640	149,666
23	Cartersville & Herrin Coal Co., No. 1.	Herrin	30,758	31,989	62,784	125,531
24	Williamson Co. Coal Co.	Johnston City	61,361	13,839	50,323	125,523
25	St. Louis-Cartersville Coal Co., Dale.	Herrin	14,827	18,007	82,032	114,866
26	Cartersville & Big Muddy Coal Co., John.	Cambria	32,514	20,961	56,540	110,015
27	Taylor Coal Co., No. 1.	Herrin	19,928	11,449	77,217	108,594
28	Watson Coal Co., No. 1.	do.	33,127	24,652	48,826	106,605
29	Southern Illinois C. & C. Co., Hemlock.	Herrin	31,228	23,688	17,366	72,282
30	Donally-Koennecke C. Co.	Centralia	4,131	14,355	53,248	71,734
31	Seranton & Big Muddy C. M. Co.	Marion	20,320	13,343	36,539	70,202
32	Robert Dick C. Co., Dick.	Cambria		17,700	41,591	59,291
33	Pittsburg-Big Muddy C. Co., No. 2.	Pittsburg	7,204	7,793	23,366	38,363
34	Watson Coal Co., No. 2.	Herrin	1,085	714	1,296	3,095
Total			2,126,557	1,209,533	3,722,531	7,058,621
LOCAL MINES.						
1	Breese-Taylor Coal Co.	Marion	3,892	4,125		8,017
2	J. S. McNeill	Cartersville	8,000			8,000
3	Henry T. Simpson	Marion	5,000			5,000
4	John A. Young	Cartersville		3,130		3,530
5	F. E. Rentfro	Crab Orchard	300	900		1,200
6	Carlisle Coal Co.	Cartersville		125	450	575
7	Chas. W. Swan	Crab Orchard	490			490
8	Motsinger & Carter	do.		400		450
9	L. Bradley	do.	300			300
10	W. S. Tarpley	do.		180		180
11	M. Shaw	do.		150		150
12	Black Diamond Coal Co.	Marion	41			41
Total			18,023	9,010	450	27,933
Total—46 mines			2,144,580	1,218,543	771,561	7,086,554

Mines reported for 1911, 50.

New mines, 2.

Abandoned mines, 6.

Mines in 1912, 46.

Twelfth District—1912.

Disposition of output.		Kegs of powder used for blasting coal.	Days of active operation.	Employees.			Tons mined.		Accidents.		Blasting coal—from solid or undercut or both.	Number of animals underground.		Number.
Tons loaded on cars for shipment.	Other purposes.			Average number of miners.	All other employees.	Total.	By hand.	By machine.	Killed.	Injured.		Horses.	Mules.	
523,183	47,512	7,967	231	.....	366	366	.....	570,695	.....	6	U. C.	.....	23	1
534,236	6,000	1,450	240	.....	186	466	.....	128,234	2	1	Both.	.....	30	2
413,430	10,126	14,489	178	.....	300	150	.....	376,380	2	1	do.	.....	24	3
369,775	37,645	5,785	198	16	444	460	.....	20,157	.....	5	do.	.....	25	4
300,099	42,284	8,597	192	179	259	438	.....	180,606	2	3	do.	.....	20	5
314,933	17,760	14,955	259	230	125	355	.....	332,693	.....	5	Solid.	.....	19	6
286,867	26,642	11,634	161	273	125	398	.....	161,777	1	2	do.	.....	19	7
278,907	12,031	3,178	200	.....	315	315	.....	290,938	1	3	U. C.	1	14	8
276,334	12,634	10,763	194	250	100	350	.....	288,968	1	6	Solid.	.....	24	9
223,924	4,439	5,518	204	160	62	222	.....	106,192	.....	.....	Both.	.....	14	10
212,108	15,711	8,551	215	160	77	237	.....	227,819	2	1	Solid.	.....	32	11
217,765	4,936	8,461	116	275	115	390	.....	222,701	1	.....	do.	.....	20	12
212,623	5,795	7,603	138	178	86	264	.....	218,418	.....	1	do.	.....	21	13
200,615	3,777	7,600	142	182	81	263	.....	204,392	1	1	do.	.....	13	14
185,127	15,010	7,082	152	155	50	205	.....	200,137	.....	5	do.	.....	20	15
190,035	7,499	6,397	178	208	93	301	.....	197,534	.....	3	do.	.....	16	16
188,062	3,295	3,042	186	126	45	170	.....	26,215	.....	2	Both.	.....	8	17
179,503	9,370	5,263	183	.....	219	219	.....	56,662	2	.....	do.	.....	17	18
174,976	4,405	5,804	206	155	77	232	.....	61,972	2	3	do.	.....	9	19
156,390	18,000	1,600	141	146	92	238	.....	174,390	1	1	U. C.	.....	18	20
150,689	7,400	1,600	220	17	212	229	.....	150,970	2	.....	Both.	.....	14	21
142,125	7,541	2,644	171	.....	178	178	.....	149,666	1	6	U. C.	.....	15	22
121,151	4,380	4,975	180	100	48	148	.....	125,531	1	.....	Solid.	.....	14	23
124,863	660	4,400	124	150	62	212	.....	125,523	.....	1	do.	.....	26	24
111,876	2,990	4,141	147	116	56	172	.....	114,866	1	.....	do.	.....	18	25
104,617	5,398	4,584	153	136	41	177	.....	110,015	.....	.....	do.	.....	11	26
99,296	9,298	3,896	142	130	37	167	.....	108,594	.....	.....	do.	.....	30	27
104,923	1,682	4,040	158	75	28	103	.....	106,605	.....	2	do.	.....	12	28
65,685	6,597	2,594	130	104	43	147	.....	72,282	.....	.....	do.	.....	8	29
68,652	3,082	2,867	104	96	39	135	.....	71,734	.....	.....	do.	.....	12	30
68,730	1,472	1,140	145	21	122	143	.....	7,200	.....	.....	U. C.	.....	7	31
53,291	6,000	2,356	94	100	50	150	.....	59,291	.....	.....	Solid.	.....	12	32
36,163	2,200	1,100	183	60	32	92	.....	14,000	.....	.....	Both.	.....	4	33
3,004	91	127	9	45	24	69	.....	3,095	.....	.....	Solid.	.....	6	34
6,693,959	364,662	186,203	167	4,422	4,039	8,461	4,503,198	2,555,423	23	62	.....	1	575	.....
.....	.....	40	170	3	.....	3	8,017	.....	.....	.....	.....	.....	.....	1
.....	.....	200	300	6	6	12	8,000	.....	.....	.....	.....	.....	.....	2
.....	.....	145	230	3	1	4	5,000	.....	.....	.....	.....	.....	.....	3
.....	.....	250	200	4	3	7	3,530	.....	.....	.....	.....	.....	.....	4
.....	.....	25	85	4	.....	4	1,200	.....	.....	.....	.....	.....	.....	5
.....	.....	10	65	5	1	6	575	.....	.....	.....	.....	.....	.....	6
.....	.....	19	49	2	.....	2	490	.....	.....	.....	.....	.....	.....	7
.....	.....	30	90	3	.....	3	450	.....	.....	.....	.....	.....	.....	8
.....	.....	2	50	2	.....	2	300	.....	.....	.....	.....	.....	.....	9
.....	.....	10	20	3	.....	3	180	.....	.....	.....	.....	.....	.....	10
.....	.....	20	40	2	.....	2	150	.....	.....	.....	.....	.....	.....	11
.....	.....	4	5	2	1	3	41	.....	.....	.....	.....	.....	.....	12
.....	7,601	755	109	39	12	51	27,933	.....	.....	.....	.....	.....	.....	.....
6,693,959	372,263	186,958	152	4,461	4,051	8,512	4,531,131	2,555,423	23	62	.....	1	575	.....

Shipping mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons.						Total.	Disposition of output—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
Williamson....	34	2, 126, 557	1, 209, 533	771, 111	1, 141, 029	1, 622, 076	188, 315	7, 058, 621	6, 693, 959	364, 662
Total.....	34	2, 126, 557	1, 209, 533	771, 111	1, 141, 029	1, 622, 076	188, 315	7, 058, 621	6, 693, 959	364, 662

Local mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons.						Total.	Disposition of output—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
Johnson.....	3	.....	3, 441	.....	405	.....	25	3, 871	.....	3, 871
Williamson....	12	18, 023	9, 010	450	.....	.....	450	27, 933	.....	27, 933
Total.....	15	18, 023	12, 451	450	405	.....	475	31, 804	.....	31, 804
The District...	49	2, 144, 580	1, 221, 984	771, 561	1, 141, 434	1, 622, 076	188, 790	7, 090, 425	6, 693, 959	396, 466

Whole number of mines reported for 1911, 52.

Number of new mines opened during the year, 3.

Number of mines abandoned during the year, 6.

Whole number of mines reported for 1912, 49.

counties—Twelfth District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees.					Tons mined.		Blasting coal.		
		Underground.			All above ground.	Total.	By hand.	By machine.	From solid—tons.	Undercut—tons.	Both methods—tons.
		Miners.	Others.	Boys.							
186,203	167	4,422	3,006	232	801	8,461	4,503,198	2,555,423	3,103,707	1,255,891	2,699,023
186,203	167	4,422	3,006	232	801	8,461	4,503,198	2,555,423	3,103,707	1,255,891	2,699,023

counties—Twelfth District—1912.

Kegs of powder used for blasting coal.	Days of active operation.	Employees.					Tons mined.		Blasting coal.		
		Underground.			All above ground.	Total.	By hand.	By machine.	From solid—tons.	Undercut—tons.	Both methods—tons.
		Miners.	Others.	Boys.							
56	123	8	.....	.....	2	10	3,871	.....	.....	.....	.....
755	109	39	2	.....	10	51	27,933	.....	.....	.....	.....
811	112	47	2	.....	12	61	31,804	.....	.....	.....	.....
187,014	150	4,469	3,008	232	813	8,522	4,535,002	2,555,423	3,103,707	1,255,891	2,699,023

All mines—recapitulation by

Counties.	Number of mines.	Productions of different grades in tons.						Total.	Disposition of output—tons.	
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.		Loaded on cars for shipment.	Other purposes.
Johnson.....	3	3,441	405	25	3,871					3,871
Williamson....	46 2,144,580	1,218,543	771,561	1,141,029	1,622,076	188,765	7,086,554	6,693,959	392,595	
Total.....	49 2,144,580	1,221,984	771,561	1,141,434	1,622,076	188,790	7,090,425	6,693,959	396,466	

counties—*Twelfth District—1912.*

Kegs of powder used for blasting coal.	Days of active operation.	Employees.					Tons mined.		Blasting coal.		
		Underground.			All above ground.	Total.	By hand.	By machine.	From solid—tons.	Undercut—tons.	Both methods—tons.
		Miners.	Others.	Boys.							
56	123	8	.....	.....	2	10	3,871	.....	.....	.....	.....
186,958	152	4,461	3,008	232	811	8,512	4,531,131	2,555,423	.....	.....	.....
187,014	150	4,469	3,008	232	813	8,522	4,535,002	2,555,423	.....	.....	.....

MINE MANAGERS, HOISTING ENGINEERS AND MINE EXAMINERS.

MINE MANAGERS HOLDING FIRST CLASS CERTIFICATES ISSUED DURING
THE YEAR ENDING DECEMBER 31, 1912.

Name.	Postoffice.	Name.	Postoffice.
Adams, Wm.....	Staunton.....	Morgan, Geo. L.....	Glen Carbon.....
Barrowman, James.....	Granville.....	Morris, W. J.....	Dorrisville.....
Bowker, Geo.....	Farmington.....	Myers, Isaac.....	Harrisburg.....
Cathcart, Wm. J.....	Harrisburg.....	Nealson, Robert.....	Herrin.....
Coulson, R. E. M.....	Glen Carbon.....	Nichols, Walter.....	Benton.....
Cummings, W. J.....	Springfield.....	Nichols, Walter.....	do.....
Curley, J. W.....	Toloca.....	Payne, Wm.....	Decatur.....
Davis, Joseph.....	Gillespie.....	Paul, Thos. W.....	Johnston City.....
Edwards, John.....	Eldorado.....	Plummer, T. J.....	Gillespie.....
Fraser, John.....	Gillespie.....	Powell, James.....	Mt. Olive.....
Gumber, Harry P.....	Christopher.....	Ralls, O. F.....	Herrin.....
Gosnell, Geo. W.....	Herrin.....	Reese, D. E.....	Gillespie.....
Gosnell, Stephen.....	Benton.....	Rees, Edwin.....	do.....
Greeman, James.....	Girard.....	Rock, David I.....	Danville.....
Grive, Robert M.....	Collinsville.....	Skelton, Alex.....	Springfield.....
Griffith, Herbert.....	Herrin.....	Simpson, R. D.....	Farmersville.....
Helm, Theodore.....	Hillsboro.....	Simpson, John.....	Lovington.....
Henry, Wm.....	Danville.....	Smith, Wm.....	Herrin.....
Herbert, Stephen.....	Staunton.....	Sneddon, Geo.....	Springfield.....
Hodges, Fred T.....	Danville.....	Soloman, E. C.....	Auburn.....
Hogan, Patrick.....	Canton.....	Steward, Roy.....	White Ash.....
Howell, John.....	Staunton.....	Taylor, Arthur.....	Belleville.....
Huml, Frank.....	Hillsboro.....	Templeton, Wm.....	Carterville.....
Irons, Joseph.....	Brereton.....	Towers, Wm.....	Eldorado.....
James, Walter.....	Tower Hill.....	Urbin, Gus.....	Christopher.....
Jones, J. E.....	Danville.....	Walker, W. R.....	Glen Carbon.....
Land, John.....	West Frankfort.....	White, Wm. K.....	Herrin.....
Maitland, J. W.....	Herrin.....	White, Phillip.....	Gillespie.....
Meyer, John.....	Duquoin.....	Williams, Thos.....	Harrisburg.....
		Wood, Thos. L.....	Pinckneyville.....

**MINE MANAGERS HOLDING SECOND CLASS CERTIFICATES ISSUED DURING
THE YEAR ENDING DECEMBER 31, 1912.**

Name.	Postoffice.	Name.	Postoffice.
Angle, E. C.	Cuba.	Havron, Walter.	Panama.
Arnett, Sidney A.	Lewistown.	Houlik, Samuel.	Colchester.
Atlig, J. P.	Petersburg.		
Bishop, E. L.	Cuba.	Johnson, John.	St. David.
Blaine, James.	Viola.	Johnson, H. C.	Middletown.
Bolden, A. C.	DeSoto.	Jordan, Abbot.	Bunker Hill.
Boone, Wm.	do.		
Boostrom, Edward.	Onieda.	Lemon, Geo. A.	Sparta.
Bransom, W. W.	Canton.	Lopeman, Charles.	Rapatee.
Brooks, Clyde.	Lewistown.		
		McVey, Edward.	Herrin.
Catton, Geo. S.	LaFayette.	Melstedt, August.	Bartonville.
Clarcy, Peter.	Middle Grove.	Mitchell, John.	Oakwood.
Clark, Alonzo.	Tennessee.	Moon, W. H.	Blandinville.
Cook, Louis E.	DuQuoin.		
Craig, J. W.	De Soto.	Peterson, Carl E.	New Windsor.
Crain, H. P.	Cramville.	Peterson, J. A.	do.
Cruser, Larkin.	Lewistown.	Porter, Charles.	Colchester.
Cummings, Wm. B.	Rushville.		
		Row, Daniel P.	Table Grove.
Davis Oscar.	Lewistown.		
Donahoo, J. L.	Moline.	Schaer, Pierre.	Farmington.
		Scott, Gilbert.	Marion.
Emamuelson, Eric E.	Brereton.	Stanley, Ed.	Maple Mills.
Endrea, Geo.	Wyoming.		
Falkenstein, C. I.	Astoria.	Trout, James.	Henderson.
Ferguson, Jesse.	Tice.		
Fonts, J. H.	Canton.	Urban, Daniel.	Sparland.
Gramenz, Amel.	Coal Valley.	Waddill, C. E.	Tennessee.
		Willcoxon, Herbert.	Lewistown.
Hamilton, Elmer.	Blandenville.		
Hassler, John E.	Belleville.	Yager, L. H.	Bathalto.
		Zinn, Edward.	Industry.

HOISTING ENGINEERS HOLDING CERTIFICATES ISSUED DURING THE YEAR ENDING DECEMBER 31, 1912.

Name.	Postoffice.	Name.	Postoffice.
Aaron, John M.....	Herrin.....	Langlitz, John.....	Mascoutah.....
Adeock, Jesse C.....	Centralia.....	Leitze, Creed.....	Alsey.....
Aitken, Bruce.....	Christopher.....	Lipp, James.....	Coal City.....
Baldwin, A. E.....	Staunton.....	McClure, Ralph J.....	Blue Mound.....
Barnes, Frate.....	Johnston City.....	Martin, Edward.....	Freeburg.....
Barton, W. Neff.....	Belleville.....	Martin, Owen.....	Danville.....
Bixby Harry H.....	Sparta.....	May, W. P.....	Coffeen.....
Camp, Ralph.....	Texas City.....	Mills, Charles J.....	Pana.....
Chambers, Leslie.....	Pekin.....	Muser, Wm. D.....	Lenzburg.....
Chandler, F. L.....	Sandoval.....	Nowitzki, Harry.....	Granville.....
Chrisman, A. C.....	Girard.....	Oswald, A. E.....	Canton.....
Costlion, W.....	Sparta.....	Packingham, Reuben M.....	Granville.....
Cook, Jesse E.....	DuQuoin.....	Passent, W. E.....	Ellisville.....
Cuttler, Geo.....	do.....	Phillips, Sedley.....	Belleville.....
Daly Micheal.....	Collinsville.....	Rinehart, Arch.....	Taylorville.....
Diehl, Fred.....	Belleville.....	Rohline, Warner.....	Cuba.....
Dick, David H.....	Canton.....	Rodgers, Dudley.....	Christopher.....
Ditmer, P. L.....	Taylorville.....	Shaffer, Roy T.....	Troy.....
Dougherty, John.....	Benton.....	Seipp, Henry.....	O'Fallon.....
Griver, Wesley.....	Belleville.....	Smith, James W.....	Cambria.....
Edwards, Fideller.....	Wasson.....	Spegal, Enos.....	Bush.....
Empson, Thos.....	Ledford.....	Spyres, Arthur.....	Canton.....
Goalby, W. L.....	Belleville.....	Stoops, J. A.....	Sesser.....
Grimes, Elmer.....	Oakwood.....	Upchurch, Wm.....	Benton.....
Hatfield, Jesse.....	Sesser.....	Utich, Clarence.....	Streator.....
Hiller, Harry R.....	Clifford.....	Voight, C. J.....	Springfield.....
Horton, Milo.....	Harrisburg.....	Weggandt, Arthur.....	Belleville.....
Hutton, Thos. Jr.....	Tallula.....	Williams, T. B.....	Herrin.....
Jackson, O. M.....	Mt. Vernon.....	Williams, Thos.....	Virden.....
Jewett, Frank.....	Pana.....	Wiseman, Richard L.....	Herrin.....
King, Frank.....	Mulkeytown.....	Wilson, Allen.....	Danville.....
Komiski, Andrew.....	Oglesby.....	Wilson, Roland.....	Marion.....
Komiski, Joseph J.....	Minonk.....		
Komiski, Mike.....	Spring Valley.....		

**MINE EXAMINERS HOLDING CERTIFICATES ISSUED DURING THE YEAR
ENDING DECEMBER 31, 1912.**

Name.	Postoffice.	Name.	Postoffice.
Banlow, Fred Jr.	Springfield	Karla, Gustav.	Decatur.
Bartels, H. H.	Mt. Olive.	Kirkpatrick, Adam.	Glen Carbon.
Bayless, I. N.	Zeigler		
Bell, H. C.	Sparta	Lever, Eli.	Glen Carbon.
Berggren, A. E.	Mathersville.	Lindsey, Ed. N.	Cramville.
Betson, J. W.	Peoria.	Lobenot, John.	Collinsville.
Brown, Harry.	Divernon.	Locker, And.	West Frankfort.
Bryson, Alexander.	Trenton.		
Burns, Wm. A.	Eldorado.	McGittigan, Thos.	O'Fallon.
Butler, Arthur.	Danville.	McGill, Thos.	Lovington.
		Martin, Chas.	Springfield.
		Maxwell, Wm.	Spring Valley.
		Morris, W. J.	Dorrisville.
Cassasa, Joseph.	Spring Valley.		
Coleman, John.	West Frankfort.	Nicholson, John Jr.	Springfield.
Copening Joseph.	Dewmaine.	Nealson, Robert.	Herrin.
Cook, Geo.	Sparland.		
Coxon, Robert.	Mascoutah.	Osborne, John.	Spring Valley.
Coxen, John.	Belleville.		
Corrigan, Geo. P.	Springfield.	Palmer, Joshua.	Harrisburg.
Craig, Levy L.	Pittsburg.	Pease, Joseph.	Caseyville.
Cross, Wm.	Glen Carbon.	Peek, R. J.	Girard.
		Phillips, Geo.	Spring Valley.
Davis, Joseph.	Gillespie.	Price, Evan.	West Frankfort.
Davis, Fred.	Thayer.	Purvis, Chas. R.	Odin.
Day, Samuel.	Gillespie.		
Diswysen, Wm.	Girard.	Reagan, Dan.	Centralia.
Dixon, Joseph.	Johnston City.	Richardson, Alexander.	Carterville.
Drury, Chas. Swift.	Dewmaine.	Rodenbush, Charles.	West Frankfort.
		Rollison, Everette.	Harrisburg.
Eiders, Mack.	Carterville.	Ronk, L. A.	Hillsboro.
		Ross, James E.	Tilden.
Finney, Walter.	West Frankfort.		
Fritts, E. W.	Sesser.	Sangrelet, Louis.	Collinsville.
		Selkirk, Thos.	do.
Gardner, Thos.	Johnston City.	Selotte, James.	Witt.
Gibbs, Chas. L.	Eldorado.	Showler, Robert.	Harrisburg.
Goff, Joseph.	Harrisburg.	Speagle, W. H.	Eldorado.
Gosnell, Geo. W.	Herrin.	Stewart, John G.	Seatonville.
Grant, Thos.	Beckemeyer.		
Greeman, James.	Girard.	Templeton, Peter.	Carterville.
Grieve, Daniel.	Belleville.	Tomblin, Wm.	Peoria.
Guymon, Wm. N.	Springfield.	Tomblin, Joseph.	do.
Hardy, Wm.	Dawson.	Valine, Wm.	Glen Carbon.
Hardy, Thos.	Troy.		
Hall, Jesse T.	Sesser.	Wagoner, John F.	Herrin.
Hart, Patrick.	Green Ridge.	Wilke, James.	Petersburg.
Heriot, Wm.	Moweaqua.	Williams, Garner.	Johnston City.
Hindman, Moody.	Carterville.		
Holmes, F. E.	Marion.		
Hunsaker, Jesse.	Harrisburg.		
Izatt, Geo.	Springfield.		

